DEPARTMENT OF THE AIR FORCE
Headquarters Air Weather Service (MAC)
Scott Air Force Base, Illinois 62225

AWS REGULATION 100-1

1 December 1985

Communications-Electronics

GLOBAL WEATHER INTERCEPTS

This regulation provides information and guidance relative to weather intercept activities. It establishes procedures for requesting that Air Force Communications Command (AFCC) and the US Navy satisfy Air Weather Service (AWS) and Naval Oceanography Command (NAVOCEANCOM) data requirements. It constitutes the official Air Weather Service statement of requirements for acquisition of weather data via radio intercepts. It details specific intercept analysis requirements. It applies to AWS and AFCC units engaged in weather intercept data acquisition under AFCC/MAC Regulation 100-8 and to Navy units engaged in weather data acquisition under AFR 100-56/OPNAVINST 2370.3.

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Chapter 1

WEATHER INTERCEPT RESPONSIBILITIES AND OBJECTIVES

1-1. Responsibilities of Participants In The Global Weather Intercept Program:

a. Air Force Communications Command (AFCC) is responsible for the acquisition of weather data in support of the Air Weather Service (AWS) global requirements (AFCCR/MACR 100-8, Communications and C-E Maintenance Support Responsibilties of AFCC and AWS (MAC)). A considerable amount of foreign weather data must be acquired through intercepting radio (Continuous Wave (CW), and Radioteletype (RATT)) weather broadcasts. To meet these responsibilities, AFCC has:

(1) Established intercept sites around the world.

(2) Entered into joint agreement with the US Navy and other agencies to assist in satisfying global weather intercept requirements.

b. The US Navy responsibilities are outlined in OPNAVINST 2370.3/AFR 100-56, Environmental Telecommunications Support.

c. AWS responsibilities in the Global Weather Intercept Program (GWIP) include:

(1) Furnishing intercept requirements to AFCC.

(2) Making quantitative and qualitative measurements of the program and providing results to AFCC.

(3) Assisting AFCC by researching existing and suspected sources of weather data to insure optimum utilization of intercept capabilities.

(4) Making permanent changes to the intercept program via changes to this regulation. Interim message changes are authorized by HQ MAC 1st Ind, 1 Sep 83, to HQ AWS/DOK Ltr, 22 Jul 83, Request for Waiver.

(5) Day to day management of the data acquisition function. Detachment 7, Air Force Global Weather Central (Det 7, AFGWC) fulfills this responsibility as an active member of the Automated Weather Network Management Center (AWNMC). Det 7, AFGWC is the AWS point of contact when temporary changes to the intercept program are required. Analysis of the weather intercept function is the responsibility of Data Acquisition Units (DAUs) at the Automated Data Weather Switches (ADWSs). A Data Control Section exists at each DAU and is responsible for monitoring and editing incoming data.

1-2. AWS Weather Intercept Objectives:

a. Intercept objectives are:

(1) Worldwide acquisition of surface weather data for 0000Z plus every three hours with a data density of at least 100 kilometers.

(2) Worldwide acquisition of radiosonde and pibal data for 0000Z plus every six hours with a data density of at least 250 kilometers.

(3) Acquisition of surface data from Russia and China for 0000Z plus every hour with a data density of at least 30 kilometers.

(4) Acquisition of radiosonde and pibal data from Russia and China for 0000Z plus every six hours with a data density of at least 125 kilometers.

(5) Simultaneous receipt and transmission to the nearest ADWS of all radio teletype signals being intercepted. Where CW is intercepted, immediate conversion to teletype form will be acomplished simultaneously with receipt at the intercept site and transmitted to the nearest ADWS within two minutes after bulletin receipt.

(6) Electromechanical or magnetic tape store and forward capability to insure weather intercept data is recoverable in the event of ADWS failure or circuit disruptions between the store and forward device and the theater ADWS.

(7) Real-time identification and reporting of intercept deficiencies to include failure to hear any broadcast or any assigned frequency when there is any reason to suspect permanent or extended loss of the broadcast/frequency.

b. Requirements to copy weather broadcasts will continually change with mission needs and as the intercept analysis program reflects broadcasts changes. Specific broadcast informtion is found in several publications as follows:

(1) Chapter 3 of this regulation provides a list of target assignments (primary and prioritized alternates).

(2) Chapter 4 of this regulation contains a complete list of AWS weather intercept broadcasts and specific broadcast information.

(3) Volume C, WMO Publication No. 9, TP4, contains contents and schedules of WMO broadcasts.

(4) AWSP 100-51, Schedules and Contents of Intercept Broadcasts, contains contents and schedules for non-WMO broadcasts.

Chapter 2

WEATHER INTERCEPT ANALYSIS

2-1. General. The AWS weather intercept data analysis program provides for systematic and timely reporting of data receipt statistics necessary to identify and solve problems quickly. The information obtained from weather intercept data analysis complements communications systems analysis directed by AFCCR 105-1, Weather Intercept Operations and Management.

2-2. Automated Analysis - Weather Intercept Performance. Intercept data input into the Automated Weather Network is analyzed by AWNMC/AWS (Automated Weather Network Management Center/Air Weather Service) and each DAU to determine the quality and quantity of data receipt from each broadcast. Results are included in the AFCC RCS: CSV-XOP (D&M) 7701 Daily/Monthly Weather Intercept Summary and intercept test reports as outlined in AFCCR 105-1.

2-3. Surveying Foreign Weather Broadcasts For Schedule And Content Changes:

a. Each DAU will conduct an annual 10-day survey of the schedules and contents of its assigned foreign weather broadcasts whose schedule and contents are not contained in WMO publication No. 9, TP 4, Volume C. Additional surveys may also be directed by AWNMC/AWS or AWS/DOK. Survey results will be prepared in the format used in AWSP 100-51, Schedules and Contents of Intercept Broadcasts, and will be forwarded to the AWNMC/AWS within 30 days.

b. Each DAU will conduct data surveys when a new WMO or non-WMO broadcast commences or an existing broadcast institutes a major unpublished change affecting transmission mode or schedule. These surveys are also accomplished during target hearability and target verification tests specified in AFCCR 105-1. Results will be forwarded to concerned activities (always AWS/DOK and HQ AFCC/TPM). The results will include as a minimum: date and time of interception, location of intercept, actual or suspected location of broadcast, type and orientation of receive anntenna(s), frequencies, call sign(s), ADXX4 bulletin information, number of observations/forecasts by WMO data type code, number of unique observations/forecasts by WMO data type codes, schedules of broadcast contents (in the format used in AWSP 100-51) and recommended action (e.g., assign as primary or alternate target, no action required, etc.). The results will be coordinated with AWNMC/AWS, AWNMC/AFCC, and AWNMC/USN.

2-4. Real-time Data Receipt Analyses. An up-to-the-minute analysis of the receipt of intercepted data available in the Automated Weather Network is an objective. Each DAU will:

a. **Make real-time quantitative analyses of intercept data. These analyses will compare the number of original reports received from each WMO block with the active library of known surface and upper air reporting stations for that block. Frequent summaries will be printed out at the data monitor position during each synoptic period and will show the number of original fixed surface and upper air reports received by WMO block for those blocks that do not meet a minimum of 75% of expected synoptic observations.**

b. Continuously monitor the status of intercept data input. When the expected data take is not received, that Data Control Section will attempt to determine the cause. This can include requesting the concerned intercept facility to check equipment tuning. The AFCC on-duty supervisor will be consulted for problems of a communications nature (i.e., ADWS equipment, communication circuitry, etc.) which inhibit the scheduled flow of intercepted data. The ADWS AFCC on-duty supervisor responsibilities are contained in AFCCR 105-1. Problems which inhibit the scheduled flow of intercepted data will be reported to the AWNMC/AWS.

2-5. Procedures For Changing Intercept Assignments To Meet Data Shortages:

a. The ADWS Data Control Sections will use the analyses (para 2-4) to detect problems in the intercept program and direct appropriate actions.

b. Each ADWS is designated as the Network Control Station (NCS) for its respective intercept operations. Based upon real-time analysis of data receipt, immediate actions are possible to obtain missing data from other intercept sources. While each intercept positions has been tasked with the production from a primary broadcast, each intercept site is also responsible for intercepting alternate broadcasts. Data monitors at each ADWS will:

(1) Maintain a thorough knowledge of and comply with AFCCR 105-1.

(2) Maintain a complete, easy access file, containing the schedules and contents of all broadcasts which are introduced into the AWN.

(3) Insure that alternate targets are copied in the priority listed in Chapter 3, unless otherwise directed or during quick reaction situations addressed in paragraph 2-5b(6)(b).

(4) Maintain a thorough knowledge of weather intercept assignments and radioteletype and CW capabilities as outlined in this regulation.

(5) Provide the supervisor at the intercept site with complete identifying information on the primary weather broadcast to be preempted and the call signs, operating hours, and frequencies of the alternate broadcast(s) to be copied.

(6) Insure the AWNMC Data Control Section is informed that a site is not able to copy any of its designated primary or alternate targets.

(a) If there is sufficient advance notification (60 minutes or more) of target or site outage (e.g., a planned power outage), the DAU will identify the problem and propose alternate targeting to the AWNMC.

(b) Under quick-reaction conditions (60 minutes or less) when there is not sufficient time to request a target change from the AWNMC, the DAU in coordination with the ADWS AFCC on-duty supervisor is authorized to make a short-term temporary change of targets to minimize data loss or to meet special data requirements. This will be done only when there is a

special real-time requirement for in-theater collectible data or if the DAU notices a significant loss of data from an assigned target. Quick-reaction tasking will be coordinated with AWNMC if time permits. As a minimum, the AWNMC will be included as an information addressee on all quick-reaction target tasking messages.

c. The AWNMC will evaluate all target reassignment proposals and emergency target reassignments and revise target tasking IAW AFCCR 105-1.

Chapter 3

TARGET INTERCEPT SCHEDULES

3-1. General. This chapter assigns targets for US Navy and Air Force intercept facilities. Schedules of data content for each target, WMO and non-WMO, are contained in WMO publication No. 9, TP 4, Volume C, and in AWSP 100-51, respectively. Global Weather Intercept Program (GWIP) operating procedures are contained in AFCCR 105-1.

3-2. Responsibilities. The following are broadcast target procedures needed to obtain maximum data take and continuity:

a. Daily target schedules will be strictly adhered to.

b. Alternates will be copied in priority when data from the primary target is unobtainable.

c. Searches will not be conducted while scheduled broadcasts are in progress.

d. Verifiction/hearability tests will be conducted only during the time(s) specified in the test directive.

3-3. Intercept Assignments. The structure of each intercept facility and targeting requirements are listed below and contain the following elements: names of facility; number and type of copying positions; unit designator; facility positions, GWIP position number, target name and required interception times; and alternates in priority order.

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a. ASCENSION ISLAND, UK 6 RATT AFCC CONTRACT

R6	40	PRETORIA, S. AFRICA	0600-2400
R2	41	BUENOS AIRES, ARGENTINA	0000-2400
R3	42	BRAZZAVILLE, CONGO	0000-2400
R4	43	KANO, NIGERIA	0000-2400
R5	44	MARACAY, VENEZUELEA	0000-2400
R1	45	NAIROBI, KENYA	0000-2400

Alternates: 1-BRASILIA, BRAZIL. 2-TANANARIVE, MADAGASCAR. 3-DAKAR, SENEGAL. 4-JEDDAH, SAUDI ARABIA. 5-ST DENIS, REUNION

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b. CLARK AB, PHILIPPINES 9 RATT/2 CW 1961 CG

R1	61	PEKING (BEIJING), CHINA	0000-2400
R2	62	HANKOW, CHINA	0000-2400
R3	63	KHABAROVSK I, USSR	0000-2400
R4	64	LANCHOW (LANZHOU), CHINA	0000-2400
R5	65	CHENGDU I, CHINA	0000-2400
R6	66	DJAKARTA, INDONESIA	0000-2400
R7	67	TASHKENT, USSR	0000-2400
R8	68	MELBOURNE, AUSTRALIA (previously called Canberra)	0000-2400
R9A	69	ST. DENIS, REUNION IS	0020-0060, 0320-0360, 0620-0660, 0920-0960, 1220-1260, 1520-1560, 1820-1860, 2120-2160
R9B	69	MOSCOW SUBREGIONAL, USSR	0060-0320, 0360-0620, 0660-0920, 0960-1220, 1260-1520, 1560-1820, 0860-2120, 2160-0020

C1	55	TAIPEI, TAIWAN	0000-2400
C2	56	WELLINGTON, NEW ZEALAND	0000-2400

Alternates: 1-IRKUTSK, USSR. 2-KHABAROVSK II, USSR (previously called Petropavlosk). 3-SVERDLOVSK, USSR. 4-TIKSI, USSR. 5-BANGKOK, THAILAND. 6-NOVOSIBIRSK, USSR. 7-NEW DELHI REGIONAL, INDIA. 8-MOSCOW SUB-R, USSR.

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c. CROUGHTON (RAF), UK 10 RATT 2130 CS

R1	11	ARCHANGEL, USSR	0000-2400
R2	12	NOVOSIBIRSK, USSR	0000-2400
R3	13	LENINGRAD, USSR	0000-2400
R4	14	KIEV, USSR	0000-2400
R5	15	WARSAW, POLAND	0000-2400
R6	16	ALMA ATA, USSR	0000-2400
R7	17	BUCHAREST, ROMANIA	0000-2400
R8	18	SVERDLOVSK, USSR	0000-2400
R9	19	POTSDAM, E. GERMANY	0000-2400
R10A	20	MOSCOW SUB-R, USSR	0000-0020, 0300-1430, 1500-2400
R10B	20	MINSK, USSR	0020-0300, 1420-1500

Alternates: 1-DIKSON, USSR. 2-IRKUTSK, USSR. 3-T2K, USSR. 4-BUDAPEST, HUNGARY. 5-TASHKENT, USSR. 6. ALGIERS, ALGERIA. 7-TBILISI, USSR.

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d. DIEGO GARCIA ISLAND, UK 3 RATT NAVCOMMSTA

R1	91	MAURITIUS	0000-2400
R2	92	JEDDAH, SAUDI ARABIA	0000-2400
R3	93	PRETORIA, SOUTH AFRICA	0000-2400

Alternates: None.

NOTE: DIEGO GARCIA is a limited use facility. GWIP targeting is done on an as available basis. Target changes may be requested from the AWNMC who must coordinate thru Navy channels approximately two weeks in advance.

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e. ELMENDORF AFB, ALASKA (programmed intercept site)

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f. INCIRLIK INSTL, TURKEY 6 RATT 2006 CG

R1	21	TBILISI, USSR	0010-0500, 0615-1030, 1215-1630 1815-2230 Search Between Broadcasts
R2	22	TASHKENT, USSR	0016-1055, 1215-2230 Search Between Broadcasts
R3	23	KIEV, USSR	0000-2400
R4	24	T2K (TASHKENT to KARACHI)	0000-2400

R5	25	BUCHAREST, ROMANIA	0000-2400
R6	26	CAIRO, EGYPT	0000-2400

Alternates: 1-ALMA ATA, USSR. 2-BET DAGAN, ISRAEL. 3-ARCHANGEL, USSR. 4-SOFIA, BULGARIA. 5-JEDDAH, SAUDI ARABIA. 6-IRKUTSK, USSR.

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g. NEA MAKRI, GREECE 1 RATT NAVCOMMSTA

R1	34	JEDDAH, SAUDI ARABIA	0000-2400

Alternates: 1-CAIRO, EGYPT. 2-KHARTOUM, SUDAN. 3-ALGIERS, ALGERIA.

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h. OWADA, JAPAN (YOKOTA AB) 3 RATT/3 CW 1956 CS

R1	81	NOVOSIBIRSK, USSR	0000-2400
R2	82	IRKUTSK, USSR	0000-2400
R3	83	KHABAROVSK II, USSR (previously called Petropavlosk)	0000-2400
C1	51	BEIJING (PEKING), CHINA	0015-0135, 0315-0410, 0615-0735, 0915-1010, 1215-1325, 1515-1610, 1815-1935, 2115-2210 Search Between Broadcasts
C2	52	TIANJIN (TIENTSIN), CHINA	0020-2330 Search 2331-0019
C3	53	PYONGYANG, N. KOREA	0031-0045, 0331-0345, 0631-0645, 0931-0945, 1231-1245, 1531-1545, 1831-1845, 2131-2145 Search 0046-0330, 0346-0630, 0640-0930, 1246-1530, 1546-1830, 1846-2130, 2146-0030

Alternates: 1-TIKSI, USSR. 2-ULAN BATOR, MONGOLIA. 3-KHABAROVSK I, USSR. 4-SVERDLOVSK, USSR.

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i. ROTA, SPAIN 1 RATT NAVCOMMSTA

R1	33	DAKAR, SENEGAL	0000-2400

Alternates: 1-ALGIERS, ALGERIA. 2-BUDAPEST, HUNGARY. 3-KANO, NIGERIA.

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j. SAN MIGUEL, PHILIPPINES 6 RATT NAVCOMMSTA

R1	71	BANGKOK, THAILAND	0000-2400
R2	72	NEW DELHI REGIONAL, INDIA	0000-2400
R3	73	TANANARIVE, MADAGASCAR	0000-2400
R4	74	NEW DELHI TERRITORIAL, INDIA	0000-2400
R5	75	HANOI, VIETNAM	0015-0035, 0115-0135, 0315-0335, 0415-0435, 0615-0635, 0715-0735, 0915-0935, 1015-1035, 1215-1235, 1315-1335, 1515-1535, 1615-1635, 1815-1835, 1915-1935, 2115-2135, 2215-2235 Search Between Broadcasts
R6	76	KUALA LUMPUR, MALAYSIA	0000-2400

Alternates: 1-BEIJING (PEKING), CHINA. 2-BIGARA, MAURITIUS IS. 3-HANKOU, CHINA. 4-LANCHOW, CHINA. 5-ULAN BATOR, MONGOLIA. 6-CHENGDU I.

k. TORREJON AB, SPAIN 6 RATT 2186 CS

R1	27	ROME, ITALY	0000-2400
R2	28	SOFIA, BULGARIA	0000-2400
R3	29	BUDAPEST, HUNGARY	0000-2400
R4	30	ALGIERS, ALGERIA	0000-0500, 0600-1100, 1200-1700, 1800-2300
R5	31	PARIS, FRANCE	0000-2400
R6	32	CAIRO, EGYPT	0000-2400

Alternates: 1-DAKAR, SENEGAL. 2-KANO, NIGERIA. 3-NAIROBI, KENYA. 4-BRAZZAVILLE, CONGO. 5-KHARTOUM, SUDAN.

Chapter 4

WORLDWIDE WEATHER BROADCASTS

This chapter provides an alphabetic listing of all known locations that broadcast continuous wave (CW), radio teletype (RATT), and/or facsimile (FAX) meteorological information. Attachment 1 can be used to quickly locate specific broadcasts within each WMO region. Attachment 2 provides a breakdown of WMO regions and blocks. Attachment 3 lists GWIP targets in alphabetical order and gives the target number and the AWN target ID for each. To facilitate the use of this chapter, the structure of each listing is explained below.

BROADCAST LOCATION		WMOR[1]	LAT/LON	IP [2]	PCS[3] TN[4]
TYPE & SPEED[5]	FREQUENCY[6]	CALL SIGN	HOURS OF OPERATION		POWER
REMARKS[7]	WMO AREA[8]	NOTES			

Figure 4-1. Listing Structure.

NOTES:

1. World Meteorological Organization Region that broadcast is located in.

2. Intercept Position used in the management of GWIP targeting.

3. AWN target identifier used in the management of GWIP targeting.

4. Target number assigned by Carswell ADWS to aid in target identification.

5. Broadcast can be CW, RATT, or FAX and the speed of the RATT and FAX is provided if known.

6. Most frequencies are short wave/high frequency broadcasts. Normally a fade in broadcast strength occurs within the HF band when the signal batch is bisected by sunrise or sunset. Some locations will switch frequencies prior to or after sunrise and set to avoid these fades.

7. Any additional information of value. GWIP sites provide frequency rating remarks for all broadcasts that they routinely copy, e.g., "CLARK 82G6" is read as the Clark Intercept Facility copying this specific frequency in 1982, usually with good results "G," and the hours of operation as listed are 60-69 percent accurate "6." Subjective usefulness ratings are "E" excellent, "G" good, "F" fair, and "P" poor. Hours of operating rating are "9" for 90-99 percent, "8" for 80-89 percent, etc.

8. World Meteorological Organization areas are the WMO blocks for which the meteorological data pertains. It is usually associated with teletype broadcasts.

ADDIS ABABA, ETHIOPIA WMOR-1 09N38E IP-2 PCS: ADD TN-23

RATT	50 BAUD	6772.2 KHZ	ETD3	1500-2400	3 KW	
RATT	50 BAUD	10125.0 KHZ	ETD4	0000-1500	3 KW	
RATT	50 BAUD	18388.0 KHZ			KW	

WMO AREA: 40 AND 63.

ADEN, YEMEN WMOR-2 13N45E IP-2 PCS: ADE TN-47

RATT	BAUD	7340.0 KHZ	70C	0000-2400	5 KW	
RATT	BAUD	11005.5 KHZ	70C	0000-2400	5 KW	
RATT	BAUD	17393.0 KHZ	70C	0000-2400	5 KW	

WMO AREA: 40.

ALGIERS, ALGERIA WMOR-1 36N03E IP-2 PCS: ALG TN-81

RATT	50 BAUD	3243.0 KHZ	7XA96	1820-0620	10 KW	
RATT	50 BAUD	6980.0 KHZ	7XA97	0000-2400	10 KW	
RATT	50 BAUD	10378.0 KHZ		0000-2400	10 KW	TO NAIMEY
RATT	50 BAUD	11595.0 KHZ	7XA98		10 KW	ROTA 82GI
RATT	50 BAUD	15931.0 KHZ			KW	
RATT	50 BAUD	21940.0 KHZ	7XA99	0620-1820	10 KW	ROTA 82GI

WMO AREA: 07, 08, 16, 60-62, 64, AND 65.

ALMA ATA, USSR WMOR-2 43N77E IP-1 PCS: ALM TN-55

RATT	BAUD	4300.0 KHZ			KW	PREV COPIED FREQ
RATT	BAUD	5150.0 KHZ	RAK	0000-2400	KW	
RATT	BAUD	5210.0 KHZ	RCU	0000-2400	KW	
RATT	BAUD	5325.0 KHZ		0000-2400	KW	NOTE 1
RATT	BAUD	7395.0 KHZ		0230-1645	KW	
RATT	BAUD	7855.0 KHZ	REA73	1500-0230	KW	
RATT	BAUD	7910.0 KHZ			KW	CROUGHTON 82UU
RATT	BAUD	8084.0 KHZ			KW	CROUGHTON 82UU
RATT	BAUD	9928.0 KHZ	RWA71	0000-2400	KW	NOTE 1 & 2
RATT	BAUD	10570.0 KHZ			KW	
RATT	BAUD	13707.0 KHZ		0230-0300	KW	NOTE 1 CROUGHTON 82UU
RATT	BAUD	13963.0 KHZ		NOTE 3	KW	NOTE 1
RATT	BAUD	14980.0 KHZ			KW	
RATT	BAUD	16879.0 KHZ	RCW75		KW	
RATT	BAUD	16989.0 KHZ			KW	

WMO AREA: 28, 29, 34-36, AND 38. NOTE 1: OPEN PERIOD 0100-0229PE6H AND 0400-0600 PE6H. NOTE 2: FREQ MAY BE 9930.0 VICE 9928.0 AND CALL SIGN RWA72 AND 73. NOTE 3: 0920-1015, 1215-1315, AND 1430-1500.

AMMAN, JORDAN WMOR-6 32N36E IP-2 PCS: TN-

RATT	50 BAUD	3762.5 KHZ		0015-PE3H	5 KW	
RATT	50 BAUD	5917.5 KHZ	JYN40	1800-0600	5 KW	
RATT	50 BAUD	10965.0 KHZ	JYN41	0600-1800	5 KW	

WMO AREA: 40. PSBL 7 KW POWER.

ANKARA, TURKEY WMOR-6 40N33E IP-2 PCS: TN-

RATT	50 BAUD	3322.5 KHZ	YMA3	0000-2400	2.5 KW	
RATT	50 BAUD	3550.0 KHZ	YMA7	0000-2400	2.5 KW	
RATT	50 BAUD	5226.5 KHZ	YMA33		10 KW	ALT FREQ: 6790.0
RATT	50 BAUD	5338.0 KHZ	YMA6	0000-2400	2.5 KW	
RATT	50 BAUD	10424.0 KHZ	YMA8	0000-2400	2.5 KW	
FAX	90 SPM	3377.0 KHZ	YMA5	1600-0000	5 KW	
FAX	90 SPM	6790.0 KHZ	YMA22	0400-1320	5 KW	
FAX	90 SPM	4560.0 KHZ	YMA35		5 KW	PREVIOUSLY USED FREQ
FAX	90 SPM	5226.5 KHZ	YMA33		10 KW	PREVIOUSLY USED FREQ

WMO AREA: 13, 15 , 16, 17, 33, 34, 35, 36, 37, 40-62.

ANTARTIC METEOROLOGICAL CENTER, SO SHETLAND ISLANDS WMOR- 62S59W IP-3 PCS: TN-

CW		5302.5 KHZ	CAN6D	1430-2200	5 KW
CW		11662.5 KHZ	CAN6D	1430-2200	5 KW
CW		15470.0 KHZ	CAN6D	1430-2200	5 KW
RATT	BAUD	5302.0 KHZ	CAN6D	Note 1	5 KW
RATT	BAUD	5302.0 KHZ	CAN6D		5 KW
RATT	BAUD	11625.0 KHZ	CAN6D		5 KW
RATT	BAUD	11662.0 KHZ	CAN6D		5 KW
RATT	BAUD	14470.0 KHZ	CAN6D		5 KW
RATT	BAUD	15470.0 KHZ	CAN6D		5 KW
RATT	BAUD	11660.0 KHZ	CAN6D	Note 1	5 KW
FAX	120 SPM	5302.0	LFB	1530-2130	10 KW
FAX	120 SPM	11602.5	LFB	1530-2130	10 KW
FAX	120 SPM	15470.0	LFB	1530-2130	10 KW

WMO AREA: 85, 88, AND 89. NOTE 1: 1445, 1545, AND 2215.

ANTANARIVE see TANANARIVE, MADAGASCAR

ARCHANGEL, USSR WMOR-6 65N41E IP-1 PCS: ARC TN-56

RATT	BAUD	3655.0 KHZ	RVZ73	1500-0300	KW	
RATT	BAUD	4545.0 KHZ	RVZ73	0000-2400	KW	
RATT	BAUD	4550.0 KHZ			KW	PSBL SOURCE
RATT	BAUD	5335.0 KHZ	RVZ73	0000-2400	KW	NOTE 1
RATT	BAUD	5345.0 KHZ	RSW71	0000-2400	KW	
RATT	BAUD	7600.0 KHZ	RGH76	0000-2400	KW	35MV POWER
RATT	BAUD	7760.0 KHZ	RVZ73	0300-1500	KW	CROUGHTON 82UU
RATT	BAUD	8050.0 KHZ	RGH77	0000-2400	KW	

WMO AREA: 20-23, 26-29, AND 35. NOTE 1: 5335.0 IS ALSO USED BY TBILISI, USSR.
ALSO SPELLED ARKHANGELSK.

ASTORIA, OR WMOR-4 46N124W IP- PCS: TN-

CW	472.0 KHZ	NMW	0400 1830	KW	

WMO AREA:

ATHENS, GREECE WMOR-6 38N24E IP-3 PCS: TN-

RATT	50 BAUD	4481.0 KHZ	SWA26	0000-2400	2.5	KW
RATT	50 BAUD	8105.0 KHZ	SWA28	0045-PE3H	2.5	KW
FAX	SPM	5206.0 KHZ	NGR	2000-0800		KW
FAX	SPM	8100.0 KHZ	NGR	0000-2400		KW
FAX	SPM	12903.0 KHZ	NGR	0800-2000		KW

WMO AREA: NGR (FACSIMILE) IS US NAVY FLEET BROADCAST.

AUCKLAND, NEW ZEALAND WMOR-5 37S175E IP- PCS: TN-

CW		487.5 KHZ	ZLD	NOTE 1	1.0	KW
FAX	120 SPM	5805.0 KHZ	ZKLF	0600-1800	5	KW
FAX	120 SPM	9410.0 KHZ	ZKLF	0000-2400	5	KW
FAX	120 SPM	13550.0 KHZ	ZKLF	0000-2400	5	KW
FAX	120 SPM	16220.0 KHZ	ZKLF	1800-0600	5	KW

WMO AREA:

NOTE 1: 0100, 0500, 0900, 1300 AND 2100.

BAGHDAD, IRAQ WMOR-2 33N44E IP-3 PCS: BAG TN-27

RATT	50 BAUD	4885.0 KHZ	YIW21	0000 - 2400	5	KW
RATT	50 BAUD	7475.0 KHZ	YIW71	0000 - 2400	5	KW

WMO AREA: 40.

BAMAKO, MALI WMOR-1 13N08E IP-3 PCS: TN-

RATT	50 BAUD	3178.0 KHZ	---	0040 - 0100	5	KW	PE3H
RATT	50 BAUD	7512.0 KHZ	---	0040 - 0100	5	KW	PE3H
RATT	50 BAUD	11060.0 KHZ	---	0040 - 0100	5	KW	PE3H

WMO AREA: 61. BCAST IS FROM BAMAKO-SENOU, MALI TO DAKAR.

BANGKOK, THAILAND WMOR-2 14N100E IP-2 PCS: BAN TN-65

RATT	50 BAUD	4885.0 KHZ				KW	PREV COPIED FREQ
RATT	50 BAUD	7395.0 KHZ	HSW64	1200-0300	3	KW	SAN MIGUEL 82UU
RATT	50 BAUD	8683.0 KHZ	HSA3		5	KW	PREV COPIED FREQ PSBL 8686.0
RATT	50 BAUD	10169.0 KHZ	HSW63	0000-2400	3	KW	SAN MIGUEL 82UU
RATT	50 BAUD	10298.0 KHZ	HSW62	0000-2400	3	KW	SAN MIGUEL 82UU
RATT	50 BAUD	11688.0 KHZ				KW	PREV COPIED FREQ
RATT	50 BAUD	16141.0 KHZ				KW	PREV COPIED FREQ
RATT	50 BAUD	17520.0 KHZ	HSW61	0000-2400	10	KW	SAN MIGUEL 82UU
FAX	60 SPM	6765.0 KHZ	HSW69		10	KW	
FAX	60 SPM	7395.0 KHZ	HSW64		3	KW	
FAX	60 SPM	17520.0 KHZ	HSW61	0330-0410	10	KW	

WMO AREA: 41-48, 50-59, 91, 94, AND 96-98.

BANGUI, CENTRAL AFRICA REPUBLIC WMOR-1 04N18E IP-2 PCS: BGI TN-18

RATT	50 BAUD	3520.0 KHZ	---	0000 - 2400	1 KW	
RATT	50 BAUD	6902.5 KHZ	---	0000 - 2400	1 KW	
RATT	50 BAUD	9072.5 KHZ	---	0000 - 2400	1 KW	TO BRAZZAVILLE

WMO AREA: 64.

BAUCAU, PORTUGUESE TIMOR WMOR-5 08S126E IP-2 PCS: BAC TN-31

CW	15655.0 KHZ	XX153	0030 & 0630	3 KW	CW BROADCAST CEASED IN 1975.

WMO AREA: 97.

BEIJING see PEKING, CHINA

BEIRUT, LEBANON WMOR-6 34N35E IP-2 PCS: BEI TN-25

RATT	50 BAUD	4368.0 KHZ	---	- - -	- KW	
RATT	50 BAUD	7735.5 KHZ	ODT	0000 - 2400	5 KW	TO ROME
RATT	50 BAUD	9287.0 KHZ	---	- - -	- KW	
RATT	50 BAUD	9386.5 KHZ	---	- - -	- KW	
RATT	50 BAUD	11558.5 KHZ	---	- - -	- KW	
RATT	50 BAUD	13549.0 KHZ	ODT	- - -	3 KW	TO ROME
RATT	50 BAUD	16081.5 KHZ	---	- - -	- KW	
RATT	50 BAUD	19347.0 KHZ	ODT	_ _ _	3 KW	TO ROME

WMO AREA: 40.

BELEM, BRAZIL WMOR-3 01S48W IP- PCS: TN-

CW	4265.0 KHZ	PPL	1.0 KW	
CW	8502.0 KHZ	PPL	1.0 KW	
CW	12979.5 KHZ	PPL	1.0 KW	
CW	17170.0 KHZ	PPL	1.0 KW	

WMO AREA:

BELGRADE, YUGOSLAVIA WMOR-6 45N20E IP- PCS:

FAX	120 SPM	3520.0 KHZ	YZZ2	0000-2400	10 KW
FAX	120 SPM	5800.0 KHZ	YZZ1	0000-2400	10 KW

WMO AREA: SERBO-CROATIAN SPELLING IS BEOGRAD.

BELLOTO, CHILE WMOR-3 33S71W IP- PCS: TN-

CW		2841.0 KHZ	CCV6	KW
CW		4298.0 KHZ	CCV6	KW
CW		8558.0 KHZ	CCV6	KW
CW		12960.0 KHZ	CCV6	KW
CW		18175.0 KHZ	CCV6	KW
FAX	120 SPM	4379.0 KHZ	CCV6	KW
FAX	120 SPM	22070.0 KHZ	CCV7	KW

WMO AREA:

BEOGRAD see BELGRADE, YUGOSLAVIA

BET DAGAN, ISRAE WMOR-6 32N35E IP-3 PCS: DET TN98

RATT	BAUD	3834.0 KHZ	4XM2	0000 - 2400	2.5 KW
RATT	BAUD	7340.0 KHZ	4XM3	0000 - 2400	2.5 KW
RATT	BAUD	13447.0 KHZ	4XM4	0000 - 2400	2.5 KW

WMO AREA: 40.

BIGARA, MAURITIUS IS WMOR-1 20S57E IP-2 PCS: MAU TN-23

RATT	BAUD	3188.0 KHZ	3BT2	0000 - 2400	4 KW	0030PE6H 3BM
RATT	BAUD	7693.0 KHZ	3BT3	0000 - 2400	4 KW	BACKUP FREQ
RATT	BAUD	15955.0 KHZ	3BT4	0000 - 2400	8 KW	0030PE6H 3BM

WMO AREA: 61. ALSO SEE MAURITIUS.

BOLINAS, CA WMOR-4 38N123W IP- PCS: TN-

WMO AREA: CW/RATT/FAX BROADCAST BEAMED TOWARD N., MID., AND S. PACIFIC BY USCG STATION AT PT. REYES, CA.

BOSTON, MA WMOR-4 42N71W IP- PCS: TN-

RATT	BAUD	5320.0 KHZ	NIK	0013 ONLY	KW	
RATT	BAUD	8490.0 KHZ	NMF		KW	
RATT	BAUD	8502.0 KHZ	NIK		KW	
RATT	BAUD	12750.0 KHZ	NIK	1213 ONLY	KW	
RATT	BAUD	13020.0 KHZ	NMF		KW	
RATT	BAUD	16968.8 KHZ	NMF		KW	
FAX	120 SPM	8502.0 KHZ	NIK	1600	10 KW	ICE CHART.
FAX	120 SPM	12750.0 KHZ	NIK	1600	10 KW	ICE CHART.

WMO AREA: NIK FACSIMILE IS A WESTERN NORTH ATLANTIC BROADCAST. NMF IS US COAST GUARD.

BRACKNELL, UNITED KINGDOM WMOR-6 52N01W IP- PCS: TN-

RATT	BAUD	4489.0 KHZ	GFL26	0000 - 2400	10 KW	
RATT	BAUD	6835.0 KHZ	GFL22	1800 - 0600	10 KW	
RATT	BAUD	9886.5 KHZ	GFL23	0000 - 2400	10 KW	
RATT	BAUD	14356.0 KHZ	GFL24	0000 - 2400	10 KW	
RATT	BAUD	18230.0 KHZ	GFL25	0600 - 1800	10 KW	
FAX	90/120 SPM	2618.5 KHZ	GFE25	1800 - 0600	10 KW	SUMMER 1900-0500
FAX	90/120 SPM	3289.5 KHZ	GFA21	0000 - 2400	10 KW	
FAX	90/120 SPM	4610.0 KHZ	GFA22	1800 - 0600	10 KW	
FAX	90/120 SPM	4782.0 KHZ	GFE21	0000 - 2400	10 KW	
FAX	90/120 SPM	8040.0 KHZ	GFA23	0000 - 2400	10 KW	
FAX	90/120 SPM	9203.0 KHZ	GFE22	0000 - 2400	10 KW	
FAX	90/120 SPM	11086.5 KHZ	GFA24	0000 - 2400	10 KW	
FAX	90/120 SPM	14436.0 KHZ	GFE23	0000 - 2400	10 KW	
FAX	90/120 SPM	14582.0 KHZ	GFA25	0600 - 1800	10 KW	
FAX	90/120 SPM	18261.0 KHZ	GFE24	0600 - 1800	10 KW	SUMMER 0500-1900

WMO AREA: 1-13, 15-17, 20, 22, 26-28, 33-37, 40, 60, 62, 68, 72, AND 78. ADDITIONAL RATT FREQ 4488.3 GFL22.

BRASILIA, BRAZIL WMOR-3 16S48W IP-2 PCS: BZL TN-21

RATT	50 BAUD	8100.0 KHZ		0000-2400	10 KW	TO MARACAY
RATT	BAUD	10225.0 KHZ	PPN9	0000-2400	5 KW	ASCENSION IS 82EU
RATT	BAUD	10245.0 KHZ		0000-2400	40 KW	TO WASHINGTON
RATT	50 BAUD	10275.0 KHZ		0000-2400	10 KW	TO MARACAY
RATT	BAUD	14560.0 KHZ	---	0000-2400	40 KW	
RATT	BAUD	18080.0 KHZ	---	0000-2400	5 KW	
RATT	50 BAUD	18100.0 KHZ		0000-2400	10 KW	TO MARACAY
RATT	BAUD	18788.0 KHZ	---	0000-2400	40 KW	
RATT	50 BAUD	21780.0 KHZ		0000-2400	10 KW	TO MARACAY
RATT	50 BAUD	22870.0 KHZ		0000-2400	10 KW	TO MARACAY
FAX	120 SPM	10225.0	PPN9	1600-2100	5 KW	
FAX	120 SPM	18080.0	PPN9	1600-2100	5 KW	

WMO AREA: 80-89.

BRAZZAVILLE, CONGO WMOR-1 04S15E IP-1 PCS: BRA TN-98

RATT	50 BAUD	3744.0 KHZ		0000-2400	5 KW	TO LIBREVILLE
RATT	50 BAUD	3847.0 KHZ	TNL96	1800-0600	3 KW	
RATT	50 BAUD	4487.5 KHZ		0000-2400	5 KW	TO BANGUI
RATT	50 BAUD	6962.5 KHZ		0000-2400	5 KW	TO DAKAR
RATT	50 BAUD	7464.5 KHZ		0000-2400	5 KW	TO BANGUI
RATT	50 BAUD	7549.0 KHZ		0000-0040	5 KW	TO KANO PE3H
RATT	50 BAUD	9196.0 KHZ		0000-2400	5 KW	TO BANGUI
RATT	50 BAUD	9285.0 KHZ		0000-2400	5 KW	TO LIBREVILLE
RATT	50 BAUD	10137.0 KHZ	TNL97	0000-2400	3 KW	ASCENSION IS 82EU
RATT	50 BAUD	14722.5 KHZ		0000-2400	5 KW	
RATT	50 BAUD	15507.0 KHZ		0000-2400	5 KW	

WMO AREA: 64 & 66.

BRENTWOOD NY see WASHINGTON DC

BUCHAREST, ROMANIA WMOR-6 45N26E IP-2 PCS: BUC TN-96

RATT	BAUD	4045.0 KHZ	YRR1	1800 - 0500	15 KW	NOTE 1 INCIRLIK 82E9 ROTA 82G1
RATT	BAUD	5731.0 KHZ	YRR1	0500 - 1800	15 KW	NOTE 1 INCIRLIK 82E9 ROTA 82G1

WMO AREA: 01, 08-11, 16, 17, 20-24, 26-29, 33-35, 37, 38, AND 40. NOTE 1: FREQ SWITCH IS MADE AT 0600 AND 1700 FROM OCT TO APR.

BUDAPEST, HUNGARY WMOR-6 47N19E IP-2 PCS: BUD TN-97

RATT	50 BAUD	4563.0 KHZ	HGB25	0000 - 2400	8 KW	
RATT	50 BAUD	7604.0 KHZ	HGE36	0000 - 2400	15 KW	

WMO AREA: (SIGNIFICANT) 12, 13, AND 15.

BUENOS AIRES, ARGENTINA WMOR-3 35S58W IP-2 PCS: BUE TN-22

RATT	50 BAUD	3792.5 KHZ			2.5 KW	TO SANTIAGO
RATT	50 BAUD	3924.5 KHZ			2.5 KW	TO ASUNCION
RATT	50 BAUD	4995.0 KHZ			2.5 KW	TO LA PAZ
RATT	50 BAUD	5185.0 KHZ	LR069	0000-2400	5.0 KW	
RATT	50 BAUD	6825.0 KHZ			2.5 KW	TO SANTIAGO
RATT	50 BAUD	6885.0 KHZ			2.5 KW	TO ASUNCION
RATT	50 BAUD	7505.0 KHZ			4.0 KW	TO LIMA
RATT	50 BAUD	8984.0 KHZ	LWB	0000-2400	10 KW	PREVIOUSLY USED FREQ
RATT	50 BAUD	9190.0 KHZ			2.5 KW	TO LA PAZ
RATT	50 BAUD	10720.0 KHZ	LRB72	0000-2400	5.0 KW	ASCENSION IS 82GU
RATT	50 BAUD	11500.0 KHZ			2.5 KW	TO ASUNCION
RATT	50 BAUD	11595.0 KHZ			2.5 KW	TO SANTIAGO
RATT	50 BAUD	12040.0 KHZ			4.0 KW	TO LIMA
RATT	50 BAUD	12160.0 KHZ	LWB	0000-2400	10 KW	PREVIOUSLY USED FREQ
RATT	50 BAUD	13930.0 KHZ			2.5 KW	TO LA PAZ
RATT	50 BAUD	15900.0 KHZ			4.0 KW	TO LIMA
RATT	50 BAUD	16030.0 KHZ	LWB	0000-2400	10 KW	
RATT	50 BAUD	16160.0 KHZ			2.5 KW	TO ASUNCION
RATT	50 BAUD	16210.0 KHZ	LWB	0000-2400	10 KW	
RATT	50 BAUD	18093.0 KHZ	LR084	0000-2400	5.0 KW	ASCENSION IS 82GU
RATT	50 BAUD	19725.0 KHZ			2.5 KW	TO LA PAZ
RATT	50 BAUD	21950.0 KHZ			4.0 KW	TO LIMA
RATT	50 BAUD	24180.0 KHZ	LWB	0000-2400	10 KW	
FAX	120 SPM	5185.0 KHZ	LR069	0000-2400	5 KW	
FAX	120 SPM	10720.0 KHZ	LRB72	0000-2400	5 KW	
FAX	120 SPM	18093.0 KHZ	LR084	0000-2400	5 KW	

WMO AREA: 80-89.

CAIRO, EGYPT WMOR-1 30N31E IP-2 PCS: CAI TN-60

RATT	50 BAUD	3957.0 KHZ	SUU7	1800 - 0600	5 KW	
RATT	50 BAUD	7317.0 KHZ	SUU3	0000 - 2400	10 KW	INCIRLIK 8269
RATT	50 BAUD	9365.0 KHZ	SUU25	1900 - 0700	10 KW	TO ALGIERS
RATT	50 BAUD	11015.0 KHZ	---	- - -	5 KW	TO NAIROBI
RATT	50 BAUD	12250.0 KHZ	SUU44	1900 - 0700	5 KW	TO KANO
RATT	50 BAUD	14738.0 KHZ	SUU52	0700 - 1900	10 KW	TO ALGIERS INCIRLIK 8269
RATT	50 BAUD	15664.0 KHZ	---	- - -	5 KW	TO JEDDAH
RATT	50 BAUD	17635.0 KHZ	---	- - -	5 KW	TO JEDDAH
RATT	50 BAUD	18106.0 KHZ	SUU9	0600 - 1800	5 KW	
RATT	50 BAUD	18252.0 KHZ	SUU20	0700 - 1900	5 KW	TO KANO
FAX	120 SPM	4526.0 KHZ	SUU2	0400 - 1930	10 KW	
FAX	120 SPM	10123.0 KHZ	SUU36	1930 -0400	10 KW	

WMO AREA: 01-03, 06-08, 10-13, 15-17, 40, 60-62, 64, AND 65.

CALCUTTA, INDIA WMOR-2 23N88E IP- PCS: CAL TN-32

CW	470.0 KHZ	VWC	0840 $ 1418	2.5 KW
CW	4286.0 KHZ	VWC		2.5 KW
CW	8526.0 KHZ	VWC	1418	2.5 KW
CW	12745.0 KHZ	VWC	0840	2.5 KW

WMO AREA:

CALLAO see LA PUNTA, PERU

CANBERRA, AUSTRALIA WMOR-5 35S149E IP-3 PCS: CAN TN-71

RATT	50 BAUD	5100.0 KHZ	AXM32	0000 - 2400	5 KW	
RATT	50 BAUD	11030.0 KHZ	AXM34	0000 - 2400	10 KW	
RATT	50 BAUD	13920.0 KHZ	AXM35	0000 - 2400	20 KW	
RATT	50 BAUD	19690.0 KHZ	AXM37	2200 - 1000	20 KW	
RATT	50 BAUD	27750.0 KHZ	AXM38	2200 - 1000	- KW	NOT OPERATIONAL
FAX	120 SPM	5100.0 KHZ	AXM32	0000 - 2400	5 KW	
FAX	120 SPM	11030.0 KHZ	AXM34	0000 - 2400	10 KW	
FAX	120 SPM	13920.0 KHZ	AXM35	0000 - 2400	20 KW	
FAX	120 SPM	19690.0 KHZ	AXM37	0000 - 2400	20 KW	

WMO AREA: 61, 68, 89, 91, 93, 94, AND 96. PRODUCTS ARE RELAYED FROM MELBOURNE TO CANBERRA FOR XMISSION.

CANTON, CHINA WMOR-2 23N114E IP-1 PCS: TN-

CW	445.0 KHZ	XSQ		2.0 KW	
CW	6390.0 KHZ	XSQ		1.0 KW	
CW	8514.0 KHZ	XSQ	1235-1240	2.0 KW	
CW	12877.0 KHZ	XSQ		KW	

WMO AREA: PIN-YIN SPELLING IS GUANGZHOU.

CAPE NAVAL, SOUTH AFRICA WMOR-1 UNK IP- PCS: TN-

CW		4222.2 KHZ	ZRQ	5.0 KW	
CW		8470.2 KHZ	ZRQ	5.0 KW	
CW		12692.2 KHZ	ZRQ	5.0 KW	
CW		16964.2 KHZ	ZRQ	5.0 KW	
RATT	BAUD	119.15 KHZ	ZRH	5.0 KW	
RATT	BAUD	4247.85 KHZ	ZRH	5.0 KW	
RATT	BAUD	8605.85 KHZ	ZRH	5.0 KW	
RATT	BAUD	12948.85 KHZ	ZRH	5.0 KW	
RATT	BAUD	17005.85 KHZ	ZRH	KW	

WMO AREA:

CARNARVON, AUSTRALIA WMOR-5 25S114E IP- PCS: TN-

CW	476.0 KHZ	VIC	2300-1200	0.5 KW
CW	4323.0 KHZ	VIC	2300-1200	1.0 KW
CW	6407.5 KHZ	VIC	2300-1200	1.0 KW

WMO AREA: VOICE FREQS INCLUDE 2201.0 & 4428.7 KHZ.

CASA BLANCA, MOROCCO WMOR-1 34N08W IP- PCS: TN-

CW	441.0 KHZ	CNP	2.0 KW

WMO AREA:

NOTE: VOICE FREQS INCLUDE 2182.0 & 2586.0 KHZ.

CAYENNE, FRENCH GUIANA WMOR-3 05N52W IP-3 PCS: TN-

RATT	BAUD	2600.0 KHZ	---	0000 - 2400	1 KW	NOT OPERATIONAL
RATT	BAUD	3945.0 KHZ	---	0000 - 2400	1 KW	NIGHT ONLY
RATT	BAUD	5775.0 KHZ	---	0000 - 2400	1 KW	NIGHT ONLY
RATT	BAUD	6766.5 KHZ	---	0000 - 2400	1 KW	NOT OPERATIONAL

WMO AREA:

CHANGSHA, CHINA WMOR-2 28N112E IP-1 PCS: TN-80

CW	NOTE 1	3808.0 KHZ			
CW	NOTE 1	4630.0 KHZ	BGH85	0000-2400	KW
CW	NOTE 1	5170.0 KHZ			
CW	NOTE 1	10944.0 KHZ	BGH86	0000-2400	KW

WMO AREA: 56-59. PIN-YIN SPELLING IS CHANG-SHA. NOTE 1: CW BROADCASTS CEASED 10 JAN 1983.

CHENGDU I, CHINA WMOR-2 31N104E IP-1 PCS: CH1 TN-38

CW	NOTE 1	3280.0 KHZ			KW	NEW FREQ CLARK 82UU
CW	NOTE 1	3975.0 KHZ			KW	NEW FREQ CLARK 82UU
CW	NOTE 1	4670.0 KHZ			KW	PREV COPIED FREQ
CW	NOTE 1	5205.0 KHZ			KW	NEW FREQ CLARK 82UU
CW	NOTE 1	6800.0 KHZ			KW	PREV COPIED FREQ
CW	NOTE 1	7800.0 KHZ			KW	NEW FREQ CLARK 82UU
CW	NOTE 1	10409.0 KHZ	BLM66		KW	WMO AREA IS 44
CW	NOTE 1	10420.0 KHZ			KW	NEW FREQ CLARK 82UU

RATT	50 BAUD	3387.0 KHZ	BLM24	1200-0000	1 KW	
RATT	50 BAUD	3807.0 KHZ	BLM25	1200-0000	1 KW	CLARK 82UU
RATT	50 BAUD	4794.0 KHZ	BLM26	1200-0000	1 KW	CLARK 82UU 4793.0?
RATT	50 BAUD	5844.0 KHZ	BLM21	0000-1200	1 KW	
RATT	50 BAUD	8190.0 KHZ	BLM22	0000-1200	1 KW	
RATT	50 BAUD	10470.0 KHZ	BLM23	0000-1200	1 KW	CLARK 82UU

WMO AREA: 41-44, 48, 50-53, AND 56-59. NOTE 1: WMO AREA 44. PIN YIN SPELLING. CHENGDU.
NOTE 1: CW BROADCASTS CEASED 10 JAN 1983.

CHENGDU II, CHINA WMOR-2 30N104E IP-1 PCS: CH2 TN-36

CW	3757.0 KHZ	BGW88	1200 - 2400	- KW
CW	4945.0 KHZ	BGW88	1200 - 2400	- KW
CW	9885.0 KHZ	BGW88	0000 - 1200	- KW
CW	11420.0 KHZ	BGW88	0000 - 1200	- KW

WMO AREA: 50-59. BETWEEN 10CT TO 31MAR FREQ SWITCH AT 0220 GMT.

COLOGNE, W. GERMANY WMOR-6 51N07E IP-3 PCS: TN-

RATT	BAUD	4901.0 KHZ	DHJ85	- - -	- KW	
RATT	BAUD	11588.5 KHZ	DHJ85	- - -	- KW	

WMO AREA:

CONKARY, GUINEA WMOR-1 09N13W IP-3 PCS: TN-

CW	3703.0 KHZ	3XM22	NOTE1	0.25 KW
CW	7500.0 KHZ	3XM20	NOTE2	0.25 KW

WMO AREA: 61. NOTE1: 0930, 1245, 1540, 1840, NAD 2140. NOTE2: 0020, 0330, 0630, AND 0745.

COPENHAGEN, DENMARK WMOR-6 56N13E IP- PCS: TN-

FAX	120 SPM	5850.0 KHZ	OXT	0030-1005	20 KW	
FAX	120 SPM	9360.0 KHZ	OXT	0005-1850	20 KW	BCAST STARTS AT 0005, 1010, 1245 AND 1830
FAX	120 SPM	13855.0 KHZ	OXT	1220-1825	20 KW	BCAST STARTS AT 1220, 1310, AND 1805
FAX	120 SPM	17510.0 KHZ	OXT	1335-1355	20 KW	

WMO AREA:

DAKAR, SENEGAL WMOR-1 15N17W IP-2 PCS: DAK TN:-0

RATT	50 BAUD	4784.0 KHZ		0930 1230	KW	1530 & 2130 Note 1 & 2
RATT	50 BAUD	5340.0 KHZ		ON REQUEST	5 KW	TO MONROVIA
RATT	50 BAUD	6862.9 KHZ		2000-0800	5 KW	TO BRAZZAVILLE
RATT	50 BAUD	7483.5 KHZ		0000-2400	5 KW	TO BAMAKO
RATT	50 BAUD	7587.5 KHZ	6VY41	0000-2400	5 KW	NOTE 1 ROTA 82G2
RATT	50 BAUD	7616.0 KHZ		1800-0830	KW	NOTE 1
RATT	50 BAUD	7657.0 KHZ		0000-2400	5 KW	TO NIAMEY
RATT	50 BAUD	9070.0 KHZ		0000-2400	5 KW	TO MONROVIA
RATT	50 BAUD	10380.0 KHZ		0930 1230	KW	1530 & 2130 NOTE 1 & 2
RATT	50 BAUD	11640.0 KHZ		0000-2400	5 KW	TO BAMAKO
RATT	50 BAUD	11695.0 KHZ		0000-2400	5 KW	TO NIAMEY
RATT	50 BAUD	13641.0 KHZ		0800-2000	5 KW	TO BRAZZAVILLE
RATT	50 BAUD	13667.5 KHZ	6VU73	0000-2400	5 KW	NOTE 1 ROTA 82E8
RATT	50 BAUD	13781.0 KHZ		ON REQUEST	5 KW	TO MONROVIA
RATT	50 BAUD	16328.0 KHZ		0000-2400	5 KW	TO BRAZZAVILLE
RATT	50 BAUD	16395.0 KHZ		0000-2400	5 KW	TO NIAMEY
RATT	50 BAUD	19750.0 KHZ	6VU79	0000-2400	5 KW	NOTE 1 ROTA 82G2
FAX	120 SPM	7587.5 KHZ	6VY41	2000-0830	5 KW	
FAX	120 SPM	13667.5 KHZ	6VU73	0000-2400	5 KW	
FAX	120 SPM	19750.0 KHZ	6VU79	0830-2000	5 KW	

WMO AREA: (SIGNIFICANT) 60-61 AND 65. (OTHER) 62 AND 64. WMO AREA TO NIAMEY: 08, 60, 61, AND 64-66. WMO AREA TO BRAZZAVILLE 08, 60, 61, 62, 64 AND 65. NOTE 1: FREQ IS CENTERED 2.55 KHZ BELOW LISTED FREQ. NOTE 2: ROTA 82G1.

DAMASCUS, SYRIA WMOR-6 34N36E IP-3 PCS: DAM TN:-28

RATT	50 BAUD	3692.0 KHZ	YKQ10	0000 - 2400	5 KW	
RATT	50 BAUD	10816.0 KHZ	YKQ20	0000 - 2400	5 KW	

WMO AREA: 40.

DANANG, VIETNAM WMOR-2 16N108E IP-1 PCS: TN-

CW	417.5 KHZ	XVT2	0000 - 2400	2.0 KW	
CW	500.0 KHZ	XVT	0000 - 2400	2.0 KW	

WMO AREA:

DARWIN, AUSTRALIA WMOR-5 12S131E IP-3 PCS: TN-

RATT	BAUD	5755.0 KHZ	AXI32	0000 - 2400	5 KW	NOT OPERATIONAL
RATT	BAUD	7535.0 KHZ	AXI33	0000 - 2400	5 KW	NOT OPERATIONAL
RATT	BAUD	10555.0 KHZ	AXI34	0000 - 2400	5 KW	NOT OPERATIONAL
RATT	BAUD	15615.0 KHZ	AXI35	0000 - 2400	5 KW	NOT OPERATIONAL
RATT	BAUD	18060.0 KHZ	AXI36	0000 - 2400	5 KW	NOT OPERATIONAL
FAX	120 SPM	5755.0 KHZ	AXI32	0800 - 2100	5 KW	
FAX	120 SPM	7535.0 KHZ	AXI33	0800 - 2100	5 KW	
FAX	120 SPM	10555.0 KHZ	AXI34	0000 - 2400	5 KW	
FAX	120 SPM	15615.0 KHZ	AXI35	2100 - 0800	5 KW	
FAX	120 SPM	18060.0 KHZ	AXI36	2100 - 0800	5 KW	

WMO AREA: 48, 91, 94, 96, AND 98. FAX BROADCAST IS INTENDED TO BE RECEIVED: 25N TO 25S AND 75E TO 180E. NOTE: VOICE, POSSIBLE CW, FREQS INCLUDE 445.0, 2201.0, 4272.5, 4428.7 AND 8487.0.

DIKSON, USSR WMOR-2 73N81E IP-1 PCS: DIK TN-59

CW		322.6 KHZ	UPV	1.0 KW		
RATT	BAUD	8175.0 KHZ	USZ	KW		OWADA 82PU
RATT	BAUD	9255.0 KHZ	USZ	KW		OWADA 82PU
RATT	BAUD	9445.0 KHZ	USZ	KW		
RATT	BAUD	10340.0 KHZ	USZ	KW		
RATT	BAUD	11103.0 KHZ	USZ	KW		OWADA 82PU
RATT	BAUD	11105.0 KHZ	USZ	KW		OWADA 82PU
RATT	BAUD	11130.0 KHZ	USZ	KW		
RATT	BAUD	11150.0 KHZ	USZ	KW		
RATT	BAUD	12155.0 KHZ	USZ	KW		OWADA 82PU
RATT	BAUD	13505.0 KHZ	USZ	KW		POSSIBLE ADDITIONAL FREQ

WMO AREA: 20, 21, 23, AND 25.

DJAKARTA see JAKARTA, INDONESIA

DOUALA, CAMEROON WMOR-1 04N13E IP-2 PCS: TN-

RATT	BAUD	4787.0 KHZ	---	0000 - 2400	5 KW	
RATT	BAUD	7714.0 KHZ	---	- - -	5 KW	TO BRAZZAVILLE

WMO AREA:
NOTE: PSBL FREQS INCLUDE 8449.0 (TJC7 A1 0.8 KW) AND 13069.5 (TJC9 A1 0.8 KW).

EDMUNTON ALBERTA, CANADA WMOR-4 53N114W IP-3 PCS: TN-

FAX	120 SPM	8184.0 KHZ	VFE	0000 - 2400	5 KW	
FAX	120 SPM	11615.0 KHZ	VFE	0000 - 2400	5 KW	
FAX	120 SPM	15770.5 KHZ	VFE	0000 - 2400	5 KW	

WMO AREA:

EPISKOPI, CYPRUS WMOR-6 35N33E IP-3 PCS: TN-

FAX	120 SPM	4930.0 KHZ	MKS	1900 - 0500	7 KW	
FAX	120 SPM	7510.0 KHZ	MKS2	0000 - 2400	3.5 KW	
FAX	120 SPM	9851.0 KHZ	MKS3	0000 - 2400	3.5 KW	
FAX	120 SPM	13496.0 KHZ	MKS4	0300 - 1700	7 KW	
FAX	120 SPM	15490.0 KHZ	MKS5	- - -	7 KW	
FAX	120 SPM	19680.0 KHZ	MKS6	- - -	7 KW	

WMO AREA:

ESQUIMALT B.C., CANADA WMOR-4 49N123W IP-3 PCS: TN-

FAX	120 SPM	4268.0 KHZ	CKN	- - -	10 KW	
FAX	120 SPM	4497.5 KHZ	CKN	0215 - 2215	10 KW	PSBL 4495.5/4491.5
FAX	120 SPM	6946.0 KHZ	CKN	- - -	10 KW	PSBL 6944.0
FAX	120 SPM	12125.0 KHZ	CKN	- -	10 KW	PSBL 12123.0

WMO AREA:

FORT de FRANCE, MARTINIQUE WMOR-4 14N62W IP- PCS: TN-

CW		435.0 KHZ	FFP		2.0 KW	
CW		4263.0 KHZ	FFP2		1.0 KW	
CW		8675.2 KHZ	FFP3		1.0 KW	
CW		12831.0 KHZ	FFP7		1.0 KW	
FAX	120 SPM	5013.0 KHZ	FFP	1030 1200	KW	ALSO 1430 & 2200
FAX	120 SPM	14521.5 KHZ	FFP	1030 1200	KW	ALSO 1430 & 2200

WMO AREA:

NOTE: VOICE FREQS INCLUDE 1310.0 KHZ (50 KW), 3315.0 KHZ (4.0 KW), AND 5995.0 KHZ (4.0 KW).

FROBISHER BAY NWT, CANADA WMOR-4 64N69W IP- PCS: TN-

CW		430.0				
CW		6493.0				
FAX	120 SPM	3253.0 KHZ	VFF		1.0 KW	BCAST FROM 1 JUL TO 15 OCT
FAX	120 SPM	7710.0 KHZ	VFF		3.0 KW	BCAST FROM 1 JUL TO 15 OCT
FAX	120 SPM	15644.0 KHZ	---		KW	

WMO AREA:

GRYTVIKEN, S. GEORGIA FALKLAND WMOR-3 54S36W IP-3 PCS: TN-

RATT	50 BAUD	4892.0 KHZ	ZBH	0030 ONLY	1 KW	
RATT	50 BAUD	5800.0 KHZ	ZBH	VARIABLE	1 KW	
RATT	50 BAUD	9106.0 KHZ	ZBH	VARIABLE	1 KW	
RATT	50 BAUD	12000.0 KHZ	ZBH	VARIABLE	1 KW	
RATT	50 BAUD	12325.0 KHZ	ZBH	VARIABLE	1 KW	
RATT	50 BAUD	12530.0 KHZ	ZBH	VARIABLE	1 KW	
RATT	50 BAUD	14915.0 KHZ	ZBH	VARIABLE	1 KW	

WMO AREA: 88 AND 89.

GUAM, MARIANA ISLANDS WMOR-5 14N145E IP-3 PCS: TN-

RATT		13075.0 KHZ	NRV		KW	PSBL 13077.0 KHZ
RATT		22565.0 KHZ	NRV		KW	PSBL 22567.0 KHZ
FAX	120 SPM	2554.0 KHZ	NPN	0900-2200	15 KW	
FAX	120 SPM	3377.5 KHZ	NSC		15 KW	US NAVY STATION
FAX	120 SPM	4975.0 KHZ	NPN	0000-2400	40 KW	ON CALL FREQ
FAX	120 SPM	6460.0 KHZ			5 KW	
FAX	120 SPM	7645.0 KHZ	NPN	0000-2400	30 KW	ON CALL FREQ
FAX	120 SPM	9960.0 KHZ			15 KW	
FAX	120 SPM	10255.0 KHZ	NPN	0000-2400	15 KW	
FAX	120 SPM	10966.0 KHZ	NSC		15 KW	US NAVY STATION
FAX	120 SPM	13807.0 KHZ	NPN	0000-2400	15 KW	
FAX	120 SPM	15930.0 KHZ			40 KW	
FAX	120 SPM	18620.0 KHZ	NPN	0100-1300	15 KW	ON CALL FREQ BTWN 1300-0100
FAX	120 SPM	20925.0 KHZ			15 KW	
FAX	120 SPM	22865.0 KHZ	NSC	STAND-BY	15 KW	US NAVY STATION
FAX	120 SPM	23880.0 KHZ	NPN	0000-2400	15 KW	ON CALL FREQ

WMO AREA: NPN IS A US NAVY FLEET BROADCAST (G FAX). FACSIMILE BROADCAST IS FOR THE WESTERN NORTH PACIFIC AND EASTERN INDIAN OCEAN. NRV IS A US COAST GUARD BROADCAST.

GUANGZHOU see CANTON, CHINA

HAIPHONG, VIETNAM WMOR-2 20N106E IP-2 PCS: TN-

CW	450.0 KHZ	XVG5	EVERY H+18	0.25 KW
CW	8470.0 KHZ	XVG9	EVERY H+18	1.00 KW

WMO AREA:

HAKODATE, JAPAN WMOR-2 42N141E IP- PCS: TN-

CW	472.0 KHZ	JNI	0.65 KW
CW	474.0 KHZ	JNI	0.65 KW

WMO AREA:

HALIFAX, NS, CANADA WMOR-4 45N64W IP-3 PCS: TN-

CW	438.0 KHZ	CFH	0200	0630	KW	1400 1800	NOTE 1
CW	484.0 KHZ	VCS	1200	2100	1.0 KW		
CW	4255.0 KHZ	CFH	0200	0630	5.0 KW	1400 1800	
CW	6430.0 KHZ	CFH	0200	0630	5.0 KW	1400 1800	
CW	8697.0 KHZ	CFH	0200	0630	10 KW	1400 1800	
CW	12726.0 KHZ	CFH	0200	0630	15 KW	1400 1800	
CW	16926.5 KHZ	CFH	0200	0630	15 KW	1400 1800	
RATT BAUD	122.5 KHZ	CFH	0100	0630	10 KW		
RATT BAUD	4269.0 KHZ	CFH	2300 - 0700		5.0 KW		
RATT BAUD	4353.0 KHZ	VCS			KW		
RATT BAUD	6328.0 KHZ	CFH			5.0 KW		
RATT BAUD	8716.5 KHZ	VCS			KW		
RATT BAUD	9888.0 KHZ	CFH			10 KW		
RATT BAUD	13508.0 KHZ	CFH	0900 - 2000		10 KW		
RATT BAUD	13540.0 KHZ	CFH			10 KW		
FAX 120 SPM	122.5 KHZ	CFH	0000 - 2400		10 KW		
FAX 120 SPM	133.15 KHZ	CFH	0000 - 2400		KW		
FAX 120 SPM	4271.0 KHZ	CFH	2200 - 1000		5.0 KW		
FAX 120 SPM	6330.0 KHZ	CFH	0000 - 2400		5.0 KW		
FAX 120 SPM	9890.0 KHZ	CFH	0000 - 2400		10 KW		
FAX 120 SPM	13510.0 KHZ	CFH	1000 - 2200		10 KW		
FAX 120 SPM	17560.0 KHZ	CFH			KW		

WMO AREA:

RATT FREQS MAY BE 2.0 KHZ HIGHER THAN LISTED. NOTE 1: CLOSED 1300-1700 ON SECOND THURSDAYS OF EACH MONTH.

HAMBURG, W. GERMANY WMOR-6 54N10E IP- PCS: TN-

FAX	120 SPM	3855.0 KHZ	DDH3	1.5 KW
FAX	120 SPM	7880.0 KHZ	DDK3	1.0 KW
FAX	120 SPM	13657.0 KHZ	DDH8	2.0 KW

WMO AREA:

HANKOW, CHINA WMOR-2 31N119E IP-1 PCS: HKW TN-40

CW	NOTE 1	3660.0 KHZ	BJZ73	1200-2400	1 KW	
CW	NOTE 1	4455.0 KHZ	BJZ75	1200-2400	1 KW	
CW	NOTE 1	4480.0 KHZ	BJZ25	1200-2400	5 KW	
CW	NOTE 1	4920.0 KHZ	BJZ74	1200-2400	1 KW	
CW	NOTE 1	5313.0 KHZ	BJZ27	1200-2400	5 KW	
CW	NOTE 1	6879.5 KHZ	BJZ72	0000-1200	1 KW	
CW	NOTE 1	8043.0 KHZ	BJZ71	0000-1200	1 KW	
CW	NOTE 1	9482.0 KHZ	BJZ70	0000-1200	1 KW	
CW	NOTE 1	10500.0 KHZ			KW	ALSO PREVIOUS RATT FREQ
CW	NOTE 1	11556.0 KHZ			KW	ALSO PREVIOUS RATT FREQ
CW	NOTE 1	12140.0 KHZ			KW	ALSO PREVIOUS RATT FREQ
RATT	50 BAUD	3745.0 KHZ	BJZ24	1200-2400	1 KW	
RATT	50 BAUD	4482.0 KHZ	BJZ25	1200-2400	5 KW	PSBL 4480.0
RATT	50 BAUD	4890.0 KHZ	BJZ26	1200-2400	1 KW	
RATT	50 BAUD	5315.0 KHZ	BJZ27	1200-2400	5 KW	
RATT	50 BAUD	6950.0 KHZ	BJZ20	0000-1200	1 KW	
RATT	50 BAUD	7863.0 KHZ	BJZ21	0000-1200	5 KW	
RATT	50 BAUD	8170.0 KHZ	BJZ22	0000-1200	1 KW	
RATT	50 BAUD	10650.0 KHZ	BJZ23	0000-1200	5 KW	

WMO AREA: 29-34, 36, 41-45, 47, 48, 50-59, 91, AND 98. WMO AREA FOR RATT: 50-59. PIN-YIN SPELLING IS HANKOU. NOTE 1: CW BROADCASTS HAVE CEASED.

HANOI, VIETNAM WMOR-2 21N106E IP-1 PCS: HAN TN-84

RATT	50 BAUD	7512.0 KHZ	XVH69	1200-0000	5 KW	
RATT	50 BAUD	7972.0 KHZ	XVH70	0000-1200	5 KW	
RATT	50 BAUD	12096.0 KHZ	XVH67	1200-0000	5 KW	
RATT	50 BAUD	14814.0 KHZ	XVH68	0000-1200	5 KW	
RATT	50 BAUD	14824.0 KHZ	VKT4	0000-1200	KW	
RATT	50 BAUD	14826.0 KHZ	VKT4		KW	PREV COPIED FREQ

WMO AREA:

HEFEI see HOFEI, CHINA

HELSINKI METRO, FINLAND WMOR-6 60N25E IP-3 PCS: TN-

CW		438.0 KHZ	OHC	0825&1933	1.0 KW	FORECAST NOAAMB F81
CW		3171.0 KHZ	OFB	0918-	KW	ICE REPORT NOAAMB F81
CW		5362.0 KHZ	OFB	2118-	KW	ICE REPORT NOAA MB F81
FAX	120 SPM	83.1 KHZ	OFA83	0040&0940	12 KW	NOAA MB F81
FAX	120 SPM	8018.0 KHZ	OFA83	0840-0900	12 KW	0840-0900 ONLY NOAAMB F81

WMO AREA: FACSIMILE IS BALTIC SEA BROADCAST.

HO CHI MINH , VIETNAM WMOR-2 10N106E IP-2 PCS: SAI TN-

CW	460.0 KHZ	XVS3	0448	1 KW
CW	500.0 KHZ	XVS	0048	2 KW
CW	8590.0 KHZ	XVS8	EVERY H+48	1 KW

WMO AREA: FORMER NAME: SAIGON.

HOFEI, CHINA WMOR-2 32N117E IP-1 PCS: HOF TN-35

CW	NOTE 1	3680.0 KHZ	BXG 3	0000-2400	KW	OWADA 82P7
CW	NOTE 1	4030.0 KHZ	BXG 3	0000-2400	KW	PSBL 4022.0 OWADA 82G8
CW	NOTE 1	5128.0 KHZ	BXG	0000-2400	KW	DELETED 10 JUN 82
CW	NOTE 1	10144.0 KHZ	BXG 3	0000-2400	KW	OWADA 82E9

WMO AREA: 30, 31, 36, 44, 45, 47, 50-59, 98, AND 99. PIN-YIN SPELLING IS HEFEI.
NOTE 1: CW BROADCAST CEASED 10 JAN 1983.

HONG KONG WMOR-2 22N114E IP-3 PCS: HNK TN-46

CW	435.0 KHZ	VPS2	0000 - 2400	3.0 KW	
CW	500.0 KHZ	VPS	0000 - 2400	3.0 KW	
CW	527.5 KHZ	VPS	0000 - 2400	3.0 KW	
CW	3842.0 KHZ	VPS8	1000 - 2100	1.0 KW	
CW	8539.0 KHZ	VPS35	0000 - 2400	1.0 KW	
CW	8619.0 KHZ	VRN35	0000 - 1300	1.0 KW	
CW	13020.4 KHZ	VPS60	0000 - 1500	1.0 KW	
CW	13031.0 KHZ	VRN60	0000 - 0700	1.0 KW	
CW	17096.0 KHZ	VPS80	2100 - 1300	1.0 KW	

WMO AREA: 45-46, 48, AND 59.

HONOLULU, HAWAII WMOR-5 21N158W IP-3 PCS: TN-

FAX	120 SPM	2122.0 KHZ	NPM	0000-2400	KW	F81
FAX		4802.5 KHZ	NPM	0600-1830		
FAX	120 SPM	5037.5 KHZ	KVM70	2315-0106	10 KW	
FAX	120 SPM	7770.0 KHZ	KVM70	0653-0816	10 KW	
FAX	120 SPM	9440.0 KHZ	NPM	0000-2400	KW	
FAX	120 SPM	9982.5 KHZ	KVM70	1140-1330	10 KW	
FAX	120 SPM	11090.0 KHZ	KVM70	1900-2045	10 KW	
FAX	120 SPM	13627.5 KHZ	KVM70	1900-2045	10 KW	
FAX	120 SPM	13862.5 KHZ	NPM	0000-2400	KW	
FAX	120 SPM	16135.0 KHZ	KVM70	1900-2045	10 KW	
FAX	120 SPM	16398.0 KHZ	NPM	1600-0630	KW	
FAX	120 SPM	21785.0 KHZ	NPM	1800-0630	KW	
FAX	120 SPM	23331.5 KHZ	KVM70	1900-2045	10 KW	

WMO AREA: NPM IS A NAVY BROADCAST. KVM70 IS A NATIONAL WEA SERVICE BROADCAST.

HORTA, AZORES WMOR-6 39N29W IP- PCS: TN-

CW		429.0 KHZ	CTH	2.5 KW	
CW		516.0 KHZ	CTH	KW	
CW		3621.0 KHZ	CTH21	0.5 KW	
CW		6334.5 KHZ	CTH47	0.5 KW	
CW		7351.0 KHZ	CTH	KW	
CW		10980.0 KHZ	CTH	KW	
CW		12994.0 KHZ	CTH55	0.5 KW	
RATT	BAUD	3618.0 KHZ	CTH21	0.5 KW	SHIFT ± 425HZ
RATT	BAUD	6331.5 KHZ	CTH47	0.5 KW	SHIFT ± 425HZ
RATT	BAUD	12991.0 KHZ	CTH55	0.5 KW	SHIFT ± 425HZ

WMO AREA:

IRKUTSK, USSR WMOR-2 52N104E IP-1 PCS: IRK TN-67

RATT	BAUD	3740.0 KHZ	RKR72	1200-2400	KW	OWADA 82FU
RATT	BAUD	4560.0 KHZ	RKR74	0000-0300	KW	OWADA 82PU. ALSO 0900-2400
RATT	BAUD	5740.0 KHZ	RNT70	1200-2400	7.5 KW	OWADA 82E9
RATT	BAUD	6970.0 KHZ	RBT54	0000-1200	KW	OWADA 82PU
RATT	BAUD	7700.0 KHZ	RTP72	0000-1200	7.5 KW	OWADA 82G9
RATT	BAUD	10205.0 KHZ	RTP78	0300-0900	KW	OWADA 82E9
FAX	SPM	3740.0 KHZ	RKR72	1200-2400	7.5 KW	SEP 77
FAX	SPM	4560.0 KHZ	RKR74	1200-2400	7.5 KW	
FAX	SPM	6970.0 KHZ	RBT54	0000-1200	7.5 KW	
FAX	SPM	10205.0 KHZ	RTP78	0000-1200	7.5 KW	

WMO AREA (SIGNIFICANT) 29, 30, AND 44. (OTHER) 21, 23, 24, 31, AND 36.

IXTAPALAPA, MEXICO WMOR-4 19N98W IP-3 PCS: TN-

CW	4800.0 KHZ	XDP	1 KW
CW	13043.0 KHZ	XDD	1 KW

WMO AREA: 76

JAKARTA, INDONESIA WMOR-5 06S107E IP-2 PCS: JOA TN-66

RATT	BAUD	11500.0 KHZ	8BB35	0000-2400	3 KW	CLARK 82UU
RATT	BAUD	16200.0 KHZ	8BB39	0000-2400	3 KW	CLARK 82UU

WMO AREA: 96 AND 97. ALTERNATE SPELLING: DJAKARTA.
CALL SIGNS: 8131335 AND 8131339.

JEDDAH, SAUDI ARABIA WMOR-2 22N39E IP-2 PCS: JED TN-95

RATT	50 BAUD	4750.0 KHZ	HZN46	0500-1800	10 KW	
RATT	50 BAUD	5740.0 KHZ	HZN	2100-0500	10 KW	TO CAIRO. INCIRLIK 82E8.
RATT	50 BAUD	7625.0 KHZ	HZN47	1800-0500	10 KW	
RATT	50 BAUD	10215.0 KHZ	HZN48	0400-2100	10 KW	TO CAIRO. INCIRLIK 82E8.
RATT	50 BAUD	17362.0 KHZ	HZN	0500-2100	10 KW	
RATT	50 BAUD	17590.0 KHZ	HZN49	0500-1800	10 KW	NOTE 1. INCIRLIK 82E8.
RATT	50 BAUD	23370.0 KHZ	HZN50	0500-1800	10 KW	
FAX	SPM	9167.5 KHZ		FROM 1900	KW	NOTE 2

WMO AREA: 01-03, 06-13, 15-17, 22, 23, 26-29, 33-35, 37, 38, 40-43, 60-62, 64, 65, AND 67.
NOTE 1: SIMILAR DATA MAY BE BROADCAST BY NAIROBI ON 17365 KHZ. NOTE 2: TEST CHART 1900 & OPS CHART FROM 1930.

KABUL, AFGHANISTAN WMOR-2 35N70E IP-3 PCS: KAB TN-49

RATT	BAUD	4622.0 KHZ	YAV23	1530-0050	1 KW
RATT	BAUD	9052.0 KHZ	YAV23	0215-1250	1 KW

WMO AREA: 40

KANO, NIGERIA WMOR-1 12N09E IP-2 PCS: KAN TN-73

RATT	50 BAUD	5155.0 KHZ	5NK	1800-0600	5 KW	
RATT	50 BAUD	12190.0 KHZ	5NK	0000-2400	5 KW	ASCENSION IS 82G1
RATT	50 BAUD	16201.0 KHZ	5NK	---------	KW	
RATT	50 BAUD	17535.0 KHZ	5NK	0600-1800	5 KW	ASCENSION IS 82G1
RATT	50 BAUD	21798.0 KHZ	5NK	0000-2400	5 KW	NOTE 1
					KW	

WMO AREA: (SIGNIFICANT) 65. (OTHER) 60, 61, AND 64. NOTE 1: ROTA 82G1 ASCENTION IS 82G1.

KARACHI, PAKISTAN WMOR-2 [illegible] IP-2 PCS: [illegible] TN-68

RATT	50 BAUD	[illegible] KHZ	ARA	[illegible]	30 KW	TO TASHKENT	NOTE 1
RATT	50 BAUD	5290.0 KHZ	ARA	1500-0140	3 KW		
RATT	50 BAUD	8075.5 KHZ	ARA	0830-2400	30 KW	NOTE 1	
RATT	50 BAUD	9110.0 KHZ	ARA	1500-0140	3 KW		
RATT	50 BAUD	11510.0 KHZ	ARA	0140-1500	3 KW		
RATT	50 BAUD	13961.5 KHZ	ARA	0000-2400	30 KW	NOTE 1	
RATT	50 BAUD	18626.5 KHZ	ARA	0000-2400	30 KW	NOTE 1	
RATT	50 BAUD	19683.0 KHZ	ARA	0140-1500	3 KW		

WMO AREA: 41. NOTE 1: BROADCASTS CEASED IN 1981.

HABAROVSK I, USSR WMOR-2 49N135E IP-1 PCS: KHB TN-69

ATT	BAUD	3335.0 KHZ	RFL62	NOTE 1	KW	
ATT	BAUD	3690.0 KHZ	RSP71	1200-2400	5 KW	BCAST NO 2 OWADA 82PU
ATT	BAUD	3785.0 KHZ	RGO71	0910-2300	KW	BCAST NO 2 OWADA 82FU
ATT	BAUD	4910.0 KHZ	RGO75	0000-2400	KW	BCAST NO 1 OWADA 82G8
ATT	BAUD	5785.0 KHZ	RCR72	0000-2400	KW	BCAST NO 2 OWADA 82G8
ATT	BAUD	6830.0 KHZ	RDW72	0000-2400	2 KW	BCAST NO 1 OWADA 82FU
ATT	BAUD	8085.0 KHZ	RVL21	NOTE 2	20 KW	
ATT	BAUD	10195.0 KHZ	RCR76	0000-1200	KW	
ATT	BAUD	10220.0 KHZ	RDW76	0430-0910	KW	
ATT	BAUD	11520.0 KHZ	RCR77	0000-1200	KW	BCAST NO 2 OWADA 82G8
ATT	BAUD	13805.0 KHZ	RCR78	0000-1200	KW	BCAST NO 1 OWADA 82E9
ATT	BAUD	16190.0 KHZ	RTM26	2315-0900	KW	
FAX NOTE 3	SPM	3350.0 KHZ	---	1005-2135	KW	
FAX	SPM	4516.7 KHZ	RHB/RHO	0000-2400	KW	
FAX	SPM	7475.0 KHZ	RHB/RHO	0000-2400	KW	
FAX	SPM	9230.0 KHZ	RHB/RHO	0000-2400	KW	
FAX	SPM	14737.0 KHZ	RHB/RHO	0000-2400	KW	
FAX	SPM	19275.0 KHZ	RHB/RHO	2150-0930	KW	

WMO AREA: 20, 21, 23-25, 28-32, 34-36, 38, 44, 47, AND 50-54. NOTE 1: 2230-0010, 1030-1215, 1355-1815, 2000-2120. NOTE 2: 1030-1215, 1355-1815, 2000-2120, AND 2230-0010. NOTE 3: 60/90/120 SPM ALL FREQS. CONTENTS OF BROADCASTS NO 1 & 2 DIFFER.

KHABAROVSK II, USSR WMOR-2 49N135E IP-1 PCS: KH2 TN-42

RATT	BAUD	4470.0 KHZ	RQW/RRZ	1200-2400	KW	
RATT	BAUD	7500.0 KHZ	RQW/RRZ	0000-1200	KW	
RATT	BAUD	5785.0 KHZ			KW	NEW FREQ

WMO AREA: 21, 24-25 AND 31-32. THIS LISTING WAS ERRONEOUSLY CALLED PETROPAVLOVSK, USSR PRIOR TO 1983.

KHARTOUM, SUDAN WMOR-1 16N33E IP-3 PCS: KHR TN-34

RATT 50 BAUD 8112.0 KHZ STK 0035 PE3H 2.5 KW TO CAIRO
RATT 50 BAUD 12286.0 KHZ STK 0035 PE3H 2.5 KW TO CAIRO

WMO AREA:

KIEV, USSR WMOR-6 50N31E IP-1 PCS: KIE TN-53

RATT	BAUD	3290.0 KHZ	RGC70	0000-2400	KW	60MV	
RATT	BAUD	3360.0 KHZ	---	0000-2400	KW	60MV	
RATT	BAUD	4442.4 KHZ	RGC72	0000-2400	KW	60MV	INCIRLIK 82P8
RATT	BAUD	5592.0 KHZ		0000-2400	KW		
RATT	BAUD	6920.0 KHZ	RGC71	0000-2400	KW	INCIRLIK 82E9	

WMO AREA: 09-13, 15-17, 26, 27, 33, 34, 37, AND 38.

KOBE, JAPAN WMOR-2 35N135E IP- PCS: TN-

CW 472.0 KHZ JGD 1.0 KW

WMO AREA:

KODIAK, ALASKA WMOR-4 58N153W IP- PCS: TN-

FAX 120 SPM 4296.0 KHZ NOJ KW
FAX 120 SPM 8457.0 KHZ NOJ KW

WMO AREA: FACSIMILE BROADCAST AREA IS THE GULF OF ALASKA AND THE BERING SEA. NOJ IS THE USCG STATION AT KODIAK, ALASKA.

KUALA LUMPUR, MALAYSIA WMOR-5 03N102E IP-2 PCS: KUL TN-70

RATT	BAUD	9143.0 KHZ	9MY58	0000-2400	5 KW	SAN MIGUEL 82UU
RATT	BAUD	18355.0 KHZ	9MY63	0000-2400	5 KW	SAN MIGUEL 82UU

WMO AREA: (SIGNIFICANT) 48 AND 96.

KUSHIRO, JAPAN WMOR-2 43N144E IP- PCS: TN-

CW 444.0 KHZ JNX 1055 & 2255 0.65 KW

WMO AREA:

KUYBYSHEV, USSR WMOR-6 53N50E IP-1 PCS: TN-

RATT	BAUD	3710.0 KHZ	RJF	0000-2400	KW	

WMO AREA:

LA JOLLA, CA WMOR-4 33N117W IP- PCS: TN-

FAX	120 SPM	8644.1 KHZ	WWD		KW	
FAX	120 SPM	17408.6 KHZ	WWD		KW	

WMO AREA:

LANCHOW, CHINA WMOR-2 36N104E IP-1 PCS: LAN TN-44

RATT	BAUD	3202.0 KHZ	BSB54	1200-2400	KW	
RATT	BAUD	3765.0 KHZ	BSB53	1200-2400	KW	
RATT	BAUD	4906.0 KHZ	BSB29	0000-2400	KW	
RATT	BAUD	6986.0 KHZ	BSB32	0000-2400	KW	CLARK 82UU
RATT	BAUD	7317.0 KHZ	BSB34	0000-1200	KW	
RATT	BAUD	13360.0 KHZ	BSB35	0000-1200	KW	CLARK 82UU

WMO AREA: (SIGNIFICANT) 51-53 AND 55-57. (OTHER) 44 AND 54. PIN-YIN SPELLING: LANZHOU.

LANZHOU see LANCHOW, CHINA

LA PUNTA, PERU WMOR-3 12S77W IP- PCS: TN-

CW	490.0 KHZ	OBC	NOTE 1	1.0 KW	MAY BE 485.0
CW	8650.0 KHZ	OBC	NOTE 1	1.0 KW	
CW	12307.0 KHZ	OBC	NOTE 1	1.0 KW	

WMO AREA: 84. NOTE 1: 0200, 1600, AND 2100. NAVAL COMM SVC
ALSO CALLED CALLAO, PERU.

LA TONTOUTA , NEW CALEDONIA WMOR-5 22S166E IP-3 PCS: TN-

RATT	BAUD	4776.0 KHZ	FXN96	0000-2400	5 KW	TO NANDI
RATT	BAUD	10730.0 KHZ	FXN97	0000-2400	5 KW	TO NANDI

WMO AREA: 91

LENINGRAD, USSR [illegible]

RATT	BAUD	3295.0 KHZ	RZ179	0000-2400	KW	SMV CLARK 5209
RATT	BAUD	4820.0 KHZ	RWV72	---------	KW	SMV
RATT	BAUD	4930.0 KHZ	RUU78	0000-2400	KW	SMV CLARK 5250
RATT	BAUD	6550.0 KHZ	RWV71	---------	KW	SMV CLARK 6203

WMO AREA: (SIGNIFICANT) 01-02, 06, 22 AND 26. (OTHER)04, 16 AND 27.
POSSIBLE CW FREQS 484.0, 4315.0, 6354.0, 8575.0, 13030.0 AND 17010.0 (UDB & URD).

LIBREVILLE, GABON WMOR-1 00N09E IP- PCS: TN-

RATT	100 BAUD	3692.5 KHZ	0000-2400	1 KW	TO BRAZZAVILLE
RATT	100 BAUD	6941.5 KHZ	0000-2400	1 KW	TO BRAZZAVILLE

WMO AREA: 64

LIMA, PERU WMOR-3 12S77W IP-2 PCS: TN-

CW	14800.0 KHZ	0AA48	NOTE 1	5 KW
CW	14850.0 KHZ	0AA48	NOTE 2	3 KW
CW	16260.0 KHZ	0AA48	1320 & 1920	3 KW

WMO AREA: 84. NOTE 1. 0845, 1400 & 1945. NOTE 2: 0045, 1345 & 1900.

LOME, TOGO WMOR-1 06N01E IP- PCS: TN-

CW	5265.0 KHZ	5VA52	0000-2400	1 KW
CW	13375.0 KHZ	5VA333	0000-2400	1 KW

WMO AREA: 65.

LONG ISLAND NY see WASHINGTON DC, USA

LOS ANGELES, CALIFORNIA WMOR-4 34N118W IP- PCS: TN-

CW	464.0 KHZ	KOK		7.5 KW
CW	6463.5 KHZ	KOK	NIGHT	3.0 KW
CW	8591.0 KHZ	KOK		10 KW
CW	12993.0 KHZ	KOK		10 KW
CW	17064.0 KHZ	KOK	DAY TIME	10 KW
CW	22413.0 KHZ	KOK		10 KW

WMO AREA:

MACAO, MACAU WMOR-2 22N113E IP-3 PCS: TN-

CW	5240.0 KHZ	XXF30	0000-2400	0.2 KW	
CW	10717.0 KHZ	XXF55	0000-2400	0.2 KW	

WMO AREA: 45.

MADRID, SPAIN WMOR-6 40N04W IP-3 PCS: TN-

FAX 60/120 SPM	3650.0 KHZ		0410-1800	3.5 KW	
FAX 60/120 SPM	6918.5 KHZ			3.5 KW	
FAX 60/120 SPM	10250.0 KHZ			3.5 KW	

WMO AREA:

LUANDA, ANGOLA WMOR-1 09S13E IP-3 PCS: TN-

CW	6861.0 KHZ	XXV57	0010 PE3H	3 KW	
CW	9364.0 KHZ	XXV58	0010 PE3H	3 KW	
CW	17400.0 KHZ	XXB60	0010 PE3H	3 KW	

WMO AREA: 66

LUNGI, SIERRA LEONE WMOR-1 08N13W IP-3 PCS: TN-

CW	5150.0 KHZ	VQW	0000-2400	0.5 KW	
CW	13566.0 KHZ	VQW22	0000-2400	0.5 KW	

WMO AREA: 61.

MAGADAN, USSR WMOR-2 60N150E IP-1 PCS: MAG TN-34

RATT	BAUD	3300.0 KHZ	RTS	0000-2400	KW	QUESTIONABLE BCAST
RATT	BAUD	4605.0 KHZ	RTS2	0000-2400	KW	QUESTIONABLE BCAST
RATT	BAUD	5185.0 KHZ	RNR4	1200-2400	KW	QUESTIONABLE BCAST
RATT	BAUD	7395.0 KHZ	UEA2	0900-2100	KW	QUESTIONABLE BCAST
RATT	BAUD	9355.0 KHZ	RNJ2	0000-2400	KW	QUESTIONABLE BCAST
RATT	BAUD	12170.0 KHZ	RBB2	0000-1200	KW	QUESTIONABLE BCAST

WMO AREA: 20-25, 29-32, AND 70.

MANILA, PHILIPPINES WMOR-5 15N121E IP-3 PCS: TN-

RATT	BAUD	5880.0 KHZ	DUM2	1200-2400	7.5 KW	
RATT	BAUD	8920.0 KHZ	DUM3	0000-2400	7.5 KW	BCAST SUSPENDED UFN
RATT	BAUD	15832.5 KHZ	DUM4	0000-2400	7.5 KW	

WMO AREA: 43, 45-48, 91, AND 96-98.

MARACAY, VENEZUELA WMOR-3 10N68W IP-2 PCS: MAR TN-20

RATT	50 BAUD	5800.0 KHZ	YWQ5	0000-1000	5 KW	
RATT	50 BAUD	6865.0 KHZ	---	NIGHT	5 KW	NOTE 1 TO QUITO
RATT	50 BAUD	7842.0 KHZ	YWQ7	0000-2400	5 KW	
RATT	50 BAUD	8130.0 KHZ	---	NIGHT	5 KW	TO BOGOTA
RATT	50 BAUD	11415.0 KHZ	YWQ11	0000-2400	5 KW	ASCENSION IS 82PU
RATT	50 BAUD	11575.0 KHZ	---	DAY	5 KW	NOTE 1 TO QUITO
RATT	50 BAUD	13480.0 KHZ	---	NIGHT	10 KW	TO BRASILIA
RATT	50 BAUD	13490.0 KHZ	---	DAY	5 KW	TO BOGOTA
RATT	50 BAUD	18245.0 KHZ	YWA18	1000-2400	5 KW	
RATT	BAUD	18255.0 KHZ	---	0000-2400	KW	NOTE 2
RATT	50 BAUD	19265.7 KHZ	---	DAY	10 KW	TO BRASILIA

WMO AREA: 80. NOTE 1: UNTIL CIRCUIT COMPLETED BY QUITO, FREQS USED ARE 13490 AND 8180 KHZ.
NOTE 2: EXCEPT 0530-1000; ASCENSION IS 82G5.

MAURITIUS, MAURITIUS IS WMOR-1 22S57E IP- PCS: MAU TN-

CW	421.0 KHZ	3BA	2.5 KW	
CW	6351.5 KHZ	3BM3	KW	
CW	12988.5 KHZ	3BM5	KW	
CW	16978.4 KHZ	3BM6	KW	

WMO AREA: ALSO SEE BIGARA, MAURITIUS IS.

MELBOURNE see CANBERRA, AUSTRALIA

MIAMI, FLORIDA WMOR-4 26N80W IP-3 PCS: TN-

RATT	BAUD	3235.0 KHZ	WBR	0000-2400	15 KW	NOTE 1
RATT	BAUD	4061.5 KHZ	WBR	0000-2400	15 KW	NOTE 2
RATT	BAUD	8130.0 KHZ	WBR	0000-2400	15 KW	NOTE 1
RATT	BAUD	8140.0 KHZ	WBR	0000-2400	15 KW	NOTE 2
RATT	BAUD	10950.0 KHZ	WBR	0000-2400	15 KW	NOTE 1
RATT	BAUD	13624.0 KHZ	WBR	0000-2400	15 KW	NOTE 2
RATT	BAUD	14395.0 KHZ	WBR	0000-2400	15 KW	NOTE 1
RATT	BAUD	16440.0 KHZ	WBR	0000-2400	15 KW	NOTE 1
RATT	BAUD	18765.0 KHZ	WBR	0000-2400	15 KW	NOTE 2

WMO AREA: NOTE 1: DIRECTIONAL BCAST (MIAMI TO EQ 50W TO 120W). NOTE 2: DIRECTIONAL BCAST (MIAMI TO 40S 30W TO 105W).

MINGALADON, BURMA WMOR-2 17N96E IP-2 PCS: MGN TN-26

CW	9150.0 KHZ	XZW	1200-2400	0.35 KW	
CW	11170.0 KHZ	XZW	0000-2400	2 KW	
CW	16370.0 KHZ	XZW	0000-2400	2 KW	

WMO AREA: 48

MINSK, USSR WMOR-6 54N28E IP-1 PCS: MIN TN-30

RATT	BAUD	3300.0 KHZ	---		KW	
RATT	BAUD	3810.0 KHZ	RST44	0000-0600	KW	ALSO RST45
RATT	BAUD	4905.0 KHZ	---		KW	
RATT	BAUD	7575.0 KHZ	---		KW	
RATT	BAUD	7640.0 KHZ	RST75	0600-2400	KW	ALSO RST76. CROUGHTON 8200

WMO AREA: 26, 27, 33, AND 34.

MOBILE, ALABAMA WMOR-4 31N88W IP- PCS: TN-

RATT	BAUD	KHZ		KW	
RATT	BAUD	4352.0 KHZ	WLO	5.0 KW	
RATT	BAUD	8707.0 KHZ	WLO	5.0 KW	
RATT	BAUD	13073.5 KHZ	WLO	5.0 KW	
RATT	BAUD	17209.5 KHZ	WLO	5.0 KW	
RATT	BAUD	22588.0 KHZ	WLO	5.0 KW	

WMO AREA:

MOGADISCIO, SOMALIA WMOR-1 02N46E IP-2 PCS: TN-

RATT	BAUD	7398.0 KHZ	---	0400-0050	KW	PE3H

WMO AREA: 63.

MOLODEZHNAIA, ANTARCTIC WMOR- 47E68S IP- PCS: TN-

FAX	120 SPM	6283.0 KHZ	RUZU	1215-1315	KW
FAX	120 SPM	9280.0 KHZ	RUZU	1730-1800	KW
FAX	120 SPM	15830.0 KHZ	RUZU	2330-2400	KW
FAX	120 SPM	17660.0 KHZ	RUZU	0845-1000	KW
FAX	120 SPM	18490.0 KHZ	RUZU	1345-1430	KW

WMO AREA: NOTE 1: XMIT TIMES ARE 0845, 0930, 1230, 1345, 1730, AND 2230. OPERATED BY USSR. ALSO SPELLED MOLODEZHNAYA.

MONSANTO, PORTUGAL WMOR-6 IP- PCS: TN-

CW		418.0 KHZ	CTV	3.0 KW	
RATT		4233.0 KHZ	CTV4	3.0 KW	SHIFT ± 425 HZ
RATT		8524.0 KHZ	CTW8	3.0 KW	SHIFT ± 425 HZ
RATT		13000.0 KHZ	CTU2	3.0 KW	SHIFT ± 425 HZ
FAX	120 SPM	4235.0		3.0 KW	SHIFT ± 425 HZ
FAX	120 SPM	8526.0		3.0 KW	SHIFT ± 425 HZ
FAX	120 SPM	13002.0		3.0 KW	SHIFT ± 425 HZ

WMO AREA:

MOSCOW HEMI, USSR WMOR-6 56N37E IP-1 PCS: MSH TN-56

RATT	50 BAUD	4290.0 KHZ	RAT28	0000-2400	KW	
RATT	50 BAUD	5020.0 KHZ	RWW74	0000-2400	KW	INCIRLIK 82P8
RATT	50 BAUD	7855.0 KHZ	ROK24	0000-2400	20 KW	INCIRLIK 82F8
RATT	50 BAUD	7890.0 KHZ	RAW74	0000-2400	14 KW	
RATT	50 BAUD	11450.0 KHZ	RDD77	0000-2400	KW	
FAX	NOTE 1 SPM	2815.0 KHZ		1800-0510	KW	PROGRAM 1
FAX	SPM	3875.0 KHZ		0000-2400	KW	PROGRAM 2
FAX	SPM	5150.0 KHZ	RJO73	0000-2400	KW	PROGRAM 2
FAX	SPM	5355.0 KHZ	RND77	0000-2400	KW	PROGRAM 1
FAX	SPM	6880.0 KHZ	RAN77	0000-2400	KW	PROGRAM 2
FAX	SPM	7670.0 KHZ		0000-2400	KW	PROGRAM 2
FAX	SPM	7755.0 KHZ	RAV78	0000-2400	KW	PROGRAM 1 PSBL 7750.0
FAX	SPM	10230.0 KHZ	RKA78	0000-2400	KW	PROGRAM 2
FAX	SPM	10980.0 KHZ	RDD78	0000-2400	KW	PROGRAM 1
FAX	SPM	15950.0 KHZ		0220-1745	KW	PROGRAM 1

WMO AREA: 01-04, 06-08, 10-13, 15-17, 40-48, 60-65, 70, 72, 78, 80, 81, 91, AND 96. HEMISPHERIC BCAST. NOTE 1: 60, 90, AND 120 SPM. ALSO SPELLED MOSKVA.

MOSCOW SUB-R, USSR WMOR-6 56N37E IP-1 PCS: MSS TN-57

RATT	50 BAUD	3330.0 KHZ	RVZ72	1815-0600	KW
RATT	50 BAUD	5140.0 KHZ	RVV73	0000-2400	KW
RATT	50 BAUD	7685.0 KHZ	RBK75	0000-2400	KW
RATT	50 BAUD	9190.0 KHZ	RDZ75	0020-1800	KW
RATT	50 BAUD	13530.0 KHZ	RVW53	0000-2400	KW

WMO AREA: 20-38.

MURMANSK, USSR WMOR-6 69N33E IP- PCS: TN-

FAX	90 SPM	4055.0 KHZ	0000-2400	KW
FAX	90 SPM	6965.0 KHZ	1900-0600	KW
FAX	90 SPM	10130.0 KHZ	0600-1900	KW

WMO AREA:

NAGOYA, JAPAN WMOR-2 35N137E IP- PCS: TN-

CW	464.0 KHZ	JNT	1.0 KW		

WMO AREA:

NAIROBI, KENYA WMOR-1 01S37E IP-2 PCS: NAI TN-62

CW	9043.0 KHZ	5YE			
CW	17365.0 KHZ	5YE			
RATT 50 BAUD	5127.0 KHZ	---		KW	PREV COPIED FREQ
RATT 50 BAUD	6954.0 KHZ	5YE	1800-0600	KW	
RATT 50 BAUD	9043.0 KHZ	5YE	0000-2400	10 KW	ASCENSION IS 82F1
RATT 50 BAUD	10385.0 KHZ	5YE11	1800-0600	10 KW	TO KANO
RATT 50 BAUD	11125.5 KHZ	5YE		KW	
RATT 50 BAUD	15525.0 KHZ			KW	PREV COPIED FREQ
RATT 50 BAUD	17365.0 KHZ	5YE3		10 KW	NOTE 1. ASCENSION IS 82FU.
RATT 50 BAUD	17660.0 KHZ	5YE11	0600-1800	10 KW	TO KANO. ASCENSION IS 82F1.
RATT 50 BAUD	22867.0 KHZ	5YE	0600-1800	KW	TO CAIRO.
FAX 120 SPM	9043.0 KHZ	5YE1	0000-2400	10 KW	
FAX 120 SPM	17365.0 KHZ	5YE3	0645-1845	10 KW	

WMO AREA: 61, 63-65, 67, AND 68. NOTE 1: SIMILAR DATA MAY BE BROADCAST BY JEDDAH ON 17362.0 KHZ.

NDJAMENA, CHAD WMOR-1 13N15E IP-2 PCS: TN-

RATT BAUD	9217.0 KHZ	---	0000-2400	5 KW	
RATT BAUD	14937.5 KHZ	---		KW	TO BRAZZAVILLE

WMO AREA: 64.

NEW DELHI REGIONAL, INDIA WMOR-2 28N77E IP-2 PCS: NDR TN-75

RATT	BAUD	3192.5 KHZ	VVD53	1430-0230	5 KW	
RATT	BAUD	4060.0 KHZ	VVD54	1430-0230	5 KW	
RATT	BAUD	6978.0 KHZ	VVD56	0230-1430	5 KW	
RATT	BAUD	7580.0 KHZ	VVD57	0000-2400	5 KW	SUB-R.
RATT	BAUD	12075.0 KHZ	VVD62	0000-2400	5 KW	
RATT	BAUD	19400.0 KHZ	VVD69	0000-1430	5 KW	SUB-R. INCIRLIK 82E8
FAX	120 SPM	4993.5 KHZ	ATA55	1430-0230	20 KW	
FAX	120 SPM	7403.0 KHZ	ATP57	0000-2400	20 KW	
FAX	120 SPM	14842.0 KHZ	ATV65	0230-1400	30 KW	ALSO 1430-0200
FAX	120 SPM	18225.0 KHZ	ATU38	0230-1400	20 KW	

WMO AREA: (SIGNIFICANT) 40-44 AND 48. (OTHER) 01-04, 06-08, 10-13, 15-17, 20-38, 45-48, 50-65, 68, 70, 72, 76, 78, and 98.

NEW DELHI TERRITORIAL, INDIA WMOR-2 28N77E IP- PCS: NDT TN-

RATT	BAUD	4060.0 KHZ	VVD54	1430-0230	5 KW	
RATT	BAUD	6978.0 KHZ	VVD56	0230-1430	5 KW	

WMO AREA: (SIGNIFICANT) 42-43.

NEW YORK, NEW YORK WMOR-4 41N74W IP-3 PCS: TN-

RATT	BAUD	4055.0 KHZ	WSY	0000-2400	3-16 KW	DAY XMISSION
RATT	BAUD	8130.0 KHZ	WSY	0000-2400	3-16 KW	DAY XMISSION
RATT	BAUD	12180.0 KHZ	WSY	0000-2400	3-16 KW	NIGHT XMISSION
RATT	BAUD	16220.0 KHZ	WSY	0000-2400	3-16 KW	NIGHT XMISSION
RATT	BAUD	16280.0 KHZ	WSY	0000-2400	3-16 KW	NIGHT XMISSION
RATT	BAUD	23211.0 KHZ	WSY	0000-2400	3-16 KW	NIGHT XMISSION

WMO AREA: TO SANTA MARIA (ALL FREQS)

NHA TRANG, VIETNAM WMOR-2 12N109E IP- PCS: TN-

CW	477.5 KHZ	XVN2	EVERY H+18	1 KW	
CW	500.0 KHZ	XVN	0000-2400	1 KW	

WMO AREA:

NIAMEY, NIGERIA WMOR-1 13N02E IP-3 PCS: TN-

RATT	50 BAUD	7922.0 KHZ	5UA	0020-PE3H	5 KW	TO DAKAR
RATT	50 BAUD	12187.5 KHZ	5UA	0020 PE3H	5 KW	TO DAKAR
RATT	50 BAUD	17372.0 KHZ	5UA	0020 PE3H	5 KW	TO DAKAR

WMO AREA: 61 AND 65.

NIIGATA, JAPAN WMOR-2 38N139E IP- PCS: TN-

CW 472.0 KHZ JNV 0720 & 1250 1.3 KW ALSO 2225 GMT

WMO AREA:

NORFOLK, VA WMOR-4 37N76W IP- PCS: TN-

FAX	120 SPM	3357.0 KHZ	NAM	1600-1400	KW	
FAX	120 SPM	4975.0 KHZ	NAM	0000-2400	KW	
FAX	120 SPM	8080.0 KHZ	NAM	0000-2400	KW	
FAX	120 SPM	10865.0 KHZ	NAM	0000-2400	KW	
FAX	120 SPM	16410.0 KHZ	NAM	1400-0000	KW	
FAX	120 SPM	20015.0 KHZ	NAM	0600-0200	KW	

WMO AREA: ALL FREQS ARE US NAVY FLEET BROADCASTS. (NFAX). SCHEDULE XMITTED AT 0000 AND 1200.

NORRKOPING, SWEDEN WMOR-6 59N16E IP-3 PCS: TN-

FAX	120 SPM	119.85 KHZ	SAY2	0800-1700	50 KW	ALSO 0300-0710
FAX	120 SPM	4037.5 KHZ	SMA4	0000-2400	2.5 KW	
FAX	120 SPM	6901.0 KHZ	SMA6	0000-2400	2.5 KW	
FAX	120 SPM	8077.5 KHZ	SMA8	0000-2400	2.5 KW	

WMO AREA: N. ATLANTIC AND BALTIC SEA BROADCAST. 3195.0 AND 7732.5 ARE PSBL CW FREQS.
ALSO CALLED NORRKOPING METRO/KARLSBORG SAY.

NORTHWOOD, UNITED KINGDOM WMOR-6 52N000W IP- PCS: TN-

FAX	120 SPM	2813.85 KHZ	GYA1	1630-0730	10 KW	30 SEP - 31 MAR
FAX	120 SPM	3436.85 KHZ	GZZ6	1930-0400	10 KW	01 APR - 29 SEP
FAX	120 SPM	3436.85 KHZ	GZZ6	1530-0830	10 KW	30 SEP - 31 MAR
FAX	120 SPM	4247.85 KHZ	GZZ2	0000-2400	10 KW	
FAX	120 SPM	6436.35 KHZ	GYJ3	0000-2400	10 KW	
FAX	120 SPM	6492.35 KHZ	GYA		KW	
FAX	120 SPM	8494.85 KHZ	GZZ40	0000-2400	10 KW	
FAX	120 SPM	12741.85 KHZ	GZZ44	0000-2400	10 KW	01 APR - 29 SEP
FAX	120 SPM	12741.85 KHZ	GZZ44	0730-1630	10 KW	30 SEP - 31 MAR
FAX	120 SPM	16938.85 KHZ	GYA61	0400-1900	10 KW	01 APR - 29 SEP
FAX	120 SPM	16938.85 KHZ	GYA61	0830-1530	10 KW	30 SEP - 31 MAR

WMO AREA:

NOUAKCHOTT, MAURITANIA WMOR-1 18N16W IP-3 PCS: NOK TN-19

CW		3630.0 KHZ	5TN7	0020-PE3H	0.25 KW	
CW		6786.0 KHZ	---	-	0.05 KW	
RATT	50 BAUD	2672.0 KHZ	---	0035-0045	1 KW	PE3H ALSO 0430 PE6H
RATT	50 BAUD	5783.0 KHZ	---	0035-0045	1 KW	PE3H ALSO 0430 PE6H
RATT	50 BAUD	9843.0 KHZ	---	0000-2400	1 KW	ASCENSION IS 8ZG5

WMO AREA: 61.

NOVOSIBIRSK, USSR WMOR-2 55N83E IP-1 PCS: NOV IN-84

RATT	BAUD	3220.0	KHZ	ROF70	1205-1645	KW	ALSO 1805-2160
RATT	BAUD	3525.0	KHZ	RTH20	2100-2235	KW	
RATT	BAUD	3590.0	KHZ	ROF71	0000-2400	KW	OWADA 82P7
RATT	BAUD	7715.0	KHZ	RCU71	0000-2400	KW	INCIRLIK 82P8 OWADA 82E9
RATT	BAUD	7875.0	KHZ	RRRQ	0000-2400	20 KW	
RATT	BAUD	7890.0	KHZ	ROF3	0000-2400	KW	OWADA 82P7
RATT	BAUD	15566.0	KHZ	RCU26	0000-2400	KW	INCIRLIK 82F8 OWADA 82E9
FAX NOTE 1	SPM	3635.0	KHZ	RCK77	1430-0044	KW	PROGRAM 2
FAX "	SPM	4445.0	KHZ	ROF73	1415-0100	KW	PROGRAM 2 & 1
FAX "	SPM	4475.0	KHZ	RWS40	1140-2350	KW	PROGRAM 2
FAX "	SPM	5210.0	KHZ	RWS40	1140-2350	KW	PROGRAM 2
FAX "	SPM	5335.0	KHZ	ROF76	0000-2400	KW	PROGRAM 2
FAX "	SPM	5765.0	KHZ		0000-2400	KW	PROGRAM 1
FAX "	SPM	9060.0	KHZ	RTA21	0000-2400	KW	PROGRAM 2
FAX "	SPM	9220.0	KHZ		0000-2400	KW	PROGRAM 1
FAX "	SPM	12230.0	KHZ		0000-1050	KW	PROGRAM 2
FAX "	SPM	12320.0	KHZ		0125-1315	KW	PROGRAM 1

WMO AREA: 20, 21, 23-31, 33-36, 38, AND 44. NOTE 1: 60/90/120 SPM.

OFFENBACH, W. GERMANY WMOR-6 50N09E IP-3 PCS: TN-

RATT	BAUD	4583.0	KHZ	DDK2	2100-0600	5 KW	MID SUN
RATT	BAUD	4583.0	KHZ	DDK2	1900-0700	5 KW	MIN SUN
RATT	BAUD	5859.0	KHZ	DDF2	2100-0500	5 KW	MAX SUN
RATT	BAUD	7646.0	KHZ	DDH7	0000-2400	10 KW	
RATT	BAUD	7880.0	KHZ	DDF3	0000-2400	20 KW	
RATT	BAUD	9880.0	KHZ	DDF9	1900-0700	5 KW	MID SUN
RATT	BAUD	9880.0	KHZ	DDF9	2000-0700	5 KW	MIN SUN
RATT	BAUD	9880.0	KHZ	DDF9	2100-0600	5 KW	MAX SUN
RATT	BAUD	11638.0	KHZ	DDK8	0600-2100	5 KW	MID SUN
RATT	BAUD	11638.0	KHZ	DDK8	0700-1900	5 KW	MIN SUN
RATT	BAUD	11638.0	KHZ	DDK8	0500-2100	5 KW	MAX SUN
RATT	BAUD	13882.0	KHZ	DDA2	0700-1900	5 KW	MID SUN
RATT	BAUD	13882.0	KHZ	DDA2	0700-2000	5 KW	MIN SUN
RATT	BAUD	13882.0	KHZ	DDA2	0600-2100	5 KW	MAX SUN
RATT	BAUD	18700.6	KHZ	DFS70H	0900-1900	5 KW	MID SUN
RATT	SPM	18700.6	KHZ	DFS70H	0900-1600	5 KW	MIN SUN
RATT	SPM	18700.6	KHZ	DFS70H	0900-2100	5 KW	MAX SUN
FAX 120	SPM	117.4	KHZ	DCF37	0000-2400	50 KW	PROGRAM 2
FAX 120/240	SPM	134.2	KHZ	DCF54	0000-2400	50 KW	PROGRAM 1

WMO AREA: 10, 12-19, 30, 32-39. NOTE 1: 120/240 SPM

MAX SUN: 01 MAY - 15 AUG MIN SUN: 01 NOV - 15 FEB MID SUN: 16 FEB - 30 APR & 16 AUG - 31 OCT.

OLINDA, BRAZIL WMOR-3 35E08S IP- PCS: TN-

CW		4298.0 KHZ	PPO		1.0 KW
CW		8520.1 KHZ	PPO		1.0 KW
CW		12840.0 KHZ	PPO		1.0 KW
CW		17162.0 KHZ	PPO		1.0 KW
FAX	120 SPM	8291.1 KHZ	PPO	0330-1830	1.0 KW

WMO AREA:

ORCADAS, S. ORKNEY IS WMOR- 61S45W IP- PCS: TN-

FAX	SPM	2422.5 KHZ	LOK	NOTE 1	KW	
FAX	SPM	4250.0 KHZ	LOK		KW	WINTER FREQ
FAX	SPM	6454.0 KHZ	LOK		KW	WINTER FREQ
FAX	SPM	8195.0 KHZ	LOK		KW	SUMMER FREQ
FAX	SPM	8818.0 KHZ	LOK		KW	SUMMER FREQ
FAX	SPM	9983.0 KHZ	LOK		KW	WINTER FREQ
FAX	SPM	11147.0 KHZ	LOK		KW	SUMMER FREQ

WMO AREA: BROADCAST IS FROM SOUTH POLE TO 50S 20W TO 90W. NOTE 1: XMISSION TIMES ARE 0300, 0315, 1700, 1715, 1915 & 1930.

OSLO, NORWAY WMOR-6 60N11E IP-3 PCS: OSL TN-96

RATT	BAUD	3869.0 KHZ	LM03	2100-0900	2.5 KW	MAX SUN
RATT	BAUD	3869.0 KHZ	LM03	1800-0900	2.5 KW	MIN SUN
RATT	BAUD	5768.0 KHZ	LM025	0000-2400	2.5 KW	
RATT	BAUD	7947.5 KHZ	LM07	0000-2400	2.5 KW	
RATT	BAUD	16087.5 KHZ	LM06	0900-2100	2.5 KW	MAX SUN
RATT	BAUD	16087.5 KHZ	LM06	0900-1800	2.5 KW	MIN SUN
FAX	SPM	4642.5 KHZ	LM034	0000-2400	0.5 KW	
FAX	SPM	5945.0 KHZ	LM05	0000-2400	2.5 KW	
FAX	SPM	8057.5 KHZ	LM08	0000-2400	2.5 KW	
FAX	SPM	11097.0 KHZ	LM0	0000-2400	2.5 KW	

WMO AREA:

MAX SUN: APR-AUG. MIN SUN: SEP-MAR. THIS BRAODCAST HAS APPARENTLY CEASED.

PAPEETE, FRENCH POLYNESIA WMOR-5 17S150W IP- PCS: TN-

RATT	BAUD	7803.0 KHZ	FZP	0020-PE3H	5 KW	
RATT	BAUD	10991.5 KHZ	FZP	0905-PE3H	5 KW	
RATT	BAUD	14770.0 KHZ	FZP	1510-PE3H	5 KW	TO NANDI & WELLINGTON

WMO AREA: 91.

PARIS, FRANCE WMOR-6 [illegible] IP-1 PCS: PAR TN-59

RATT	BAUD	4013.5 KHZ	HXX25	1800-0900	10 KW	
RATT	BAUD	8163.0 KHZ	HXX21	0000-2400	10 KW	NOTE 1
RATT	BAUD	14980.0 KHZ	HXX34	0600-1800	10 KW	
RATT	BAUD	17455.0 KHZ	HXX23	0900-2400	10 KW	
FAX	90/120 SPM	131.8 KHZ	FYA31	0000-2400	100 KW	NATIONAL FAX BCAST
FAX	90/120 SPM	4047.5 KHZ	FTE4	1930-0600	10 KW	
FAX	90/120 SPM	8185.0 KHZ	FP18/3	0000-2400	10 KW	
FAX	90/120 SPM	12305.0 KHZ	FTM30	0600-1900	10 KW	

WMO AREA: 01-10, 17-19, 27-30 AND 37-39. NOTE 1: NO BCAST FROM 1500 TO 1800 ON LAST THURSDAY OF EACH MONTH.

PEKING, CHINA WMOR-2 40N116E IP-1 PCS: PEK TN-77

CW		3520.0 KHZ	BQB16	1200-2400	KW	OWADA 82F9
CW		4000.0 KHZ	BQB15	1200-2400	KW	OWADA 82G8
CW		5410.0 KHZ	BQB14	1200-2400	KW	OWADA 82E9
CW		6300.0 KHZ	BQB13	0000-1200	KW	OWADA 82P7
CW		7550.0 KHZ	BQB12	0000-1200	KW	OWADA 82G8
CW		10515.0 KHZ	BQB11	0000-1200	KW	OWADA 82E9
RATT	50 BAUD	3350.0 KHZ	BAA2	1200-2400	5 KW	APR 78
RATT	50 BAUD	4100.0 KHZ	BAA25	1200-2400	1 KW	
RATT	50 BAUD	5180.0 KHZ	BAA9	1200-2400	1 KW	
RATT	50 BAUD	5730.0 KHZ	BAA24	0000-1200	1 KW	
RATT	50 BAUD	7350.0 KHZ	BAA4	1200-2400	1 KW	
RATT	50 BAUD	7815.0 KHZ	BAA22	0000-1200	1 KW	
RATT	50 BAUD	KHZ			KW	
RATT	50 BAUD	9195.0 KHZ	BAA23	1200-2400	1 KW	SAN MIGUEL 82UU
RATT	50 BAUD	9765.0 KHZ	BAA6	0000-1200	5 KW	
RATT	50 BAUD	10320.0 KHZ	BAA8	0000-1200	1 KW	
RATT	50 BAUD	10385.0 KHZ	BAA21	1200-2400	1 KW	SAN MIGUEL 82UU
RATT	50 BAUD	14340.0 KHZ	BAA7	0000-1200	1 KW	SAN MIGUEL 82UU
RATT	50 BAUD	15320.0 KHZ	BAA20	0000-1200	1 KW	SAN MIGUEL 82UU
FAX	120 SPM	5525.0 KHZ	BAF6	0000-2400	6-8 KW	
FAX	120 SPM	8120.0 KHZ	BAF36	0000-2400	6-8 KW	
FAX	120 SPM	10115.0 KHZ	BAF4	0000-2400	10 KW	
FAX	120 SPM	12110.0 KHZ	BAF33	0000-2400	6-8 KW	
FAX	120 SPM	14365.0 KHZ	BAF8	0000-2400	15 KW	
FAX	120 SPM	18235.0 KHZ	BAF33	0000-2400	6-8 KW	

WMO CW AREA: 44-59. WMO RATT AREA: 17, 20-38, 40, 42-45, 47, 48, 50-59, 70, 91, AND 98. PIN YIN SPELLING IS BEIJING. NO CW BROADCASTS BTWN 1500-1510 AND 0300-0310. PREVIOUS USED RATT FREQS ARE 9192.0 AND 13402.0.

PETROPAVLOVSK see KHABAROVSK II, USSR

PHNOM PENH, KAMPUCHEA WMOR-2 12N105E IP-3 PCS: TN-

RATT	50 BAUD	8135.0 KHZ	XUB	0000-2400	2.5 KW	
RATT	50 BAUD	18555.0 KHZ	XUB	0000-2400	2.5 KW	

WMO AREA: 4S. FORMALLY CAMBODIA.

POTSDAM, E. GERMANY WMOR-6 52N13E IP-2 PCS: POT TN-58

RATT	100 BAUD	3109.0 KHZ	Y3K3	0000-2400	5 KW	CROUGHTON 82UU
RATT	100 BAUD	4057.0 KHZ	Y3K4	0000-2400	5 KW	
RATT	100 BAUD	7980.0 KHZ	Y3K7	0000-2400	5 KW	CROUGHTON 82UU

WMO AREA: (SIGNIFICANT) 09. (OTHER) 01-04, 06-08, 10-13, 15-17, 20, 22-23, 26-28, 33-34, 60 AND 62.

PORT VILA, NEW HEBRIDES WMOR-5 18S168E IP-3 PCS: TN-

RATT	BAUD	2761.0 KHZ	YJX	0000-2400	0.5 KW	
RATT	BAUD	5197.0 KHZ	---	0000-2400	0.5 KW	
RATT	BAUD	8041.0 KHZ	---		KW	TO NANDI
RATT	BAUD	10134.0 KHZ	---		KW	

WMO AREA:

PORTISHEAD, ENGLAND WMOR-6 51N003W IP- PCS:

RATT	BAUD	4286.0 KHZ	GKA2	5-12 KW
RATT	BAUD	6369.0 KHZ	GKA2	5-12 KW
RATT	BAUD	8546.0 KHZ	GKA4	5-12 KW
RATT	BAUD	12822.0 KHZ	GKA5	5-12 KW
RATT	BAUD	17098.4 KHZ	GKA6	5-12 KW
RATT	BAUD	22467.0 KHZ	GKA7	5-12 KW

WMO AREA: LON/LAT NOT AVAILABLE.

PRAGUE, CZECHOSLOVAKIA WMOR-6 50N14E IP- PCS: TN-

FAX	90/120 SPM	100.95 KHZ	OLT21	0000-2400	80 KW

WMO AREA: ALSO SPELLED PRAHA.

PRETORIA, S. AFRICA WMOR-1 26S28E IP-2 PCS: PRE TN-76

RATT	75 BAUD	4016.0 KHZ	ZR05	0200-0430	30 KW	NOTE 1&2 ASCENSION IS 82E
RATT	75 BAUD	5359.3 KHZ	ZUD52	ALTERNATE	KW	NOTE 1
RATT	75 BAUD	7512.0 KHZ	ZR02	0000-2400	30 KW	NOTE 1&3 ASCENTION IS 82E
RATT	75 BAUD	10307.0 KHZ	ZUD39	2300-0600	KW	NOTE 1
RATT	75 BAUD	13777.0 KHZ	ZR03	0200-2030	30 KW	NOTE 1 ASCENSION IS 82E8
RATT	75 BAUD	18242.0 KHZ	ZR04	0545-1745	30 KW	NOTE 1 ASCENSION IS 82E8
RATT	75 BAUD	20755.0 KHZ	ZUD36	0600-2300	KW	NOTE 1
RATT	75 BAUD	7410.0 KHZ			KW	
FAX	120 SPM	4014.0 KHZ	ZR05	1730-0300	30 KW	
FAX	120 SPM	5359.3 KHZ	ZUD52	ALTERNATE	KW	
FAX	120 SPM	6852.0 KHZ	ZU029	1700-0500	KW	
FAX	120 SPM	7364.3 KHZ	ZU0528	ALTERNATE	KW	
FAX	120 SPM	7508.0 KHZ	ZR02	0000-2400	30 KW	8KW 0545-1745
FAX	120 SPM	10307.0 KHZ	ZUD39	2300-0600	KW	
FAX	120 SPM	13773.0 KHZ	ZR03	0300-1730	30 KW	
FAX	120 SPM	18032.0 KHZ	ZU066	0500-1700	KW	TO NAIROBI
FAX	120 SPM	18238.0 KHZ	ZR04	0545-1745	30 KW	
FAX	120 SPM	20755.0 KHZ	ZUD36	0600-2300	KW	TO BRAZZAVILLE/KINSHASA

WMO AREA: (SIGNIFICANT) 67 AND 68. (OTHER) 61, 63, 64, AND 89. NOTE 1: XMISSION IS TO BRAZZAVILLE AND NAIROBI AND IS CENTERED 1.9 KHZ ABOVE LISTED FREQ. NOTE 2: ALSO 1730-2030. NOTE 3: 8 KW BTWN 0545-1745 GMT.

PYONGYANG, N. KOREA WMOR-2 39N126E IP-2 PCS: PYY TN-48

CW		3157.0 KHZ	HMP11	0000-2400	1 KW	OWADA 62G8
CW		6780.0 KHZ	HMP11	0000-2400	1 KW	OWADA 82E9
RATT	BAUD	3157.0 KHZ	HMP	0000-2400	KW	
RATT	BAUD	4646.0 KHZ	HMA	0000-2400	1 KW	
RATT	BAUD	6780.0 KHZ			KW	
RATT	BAUD	8170.0 KHZ	HMA	0000-2400	5 KW	
RATT	BAUD	5160.0 KHZ	HMP11		KW	PREV COPIED FREQ
RATT	BAUD	6650.0 KHZ	HMP11		KW	PREV COPIED FREQ

WMO AREA: 23, 47, and 50-59. WMO RATT AREA: 47.

QUICKBORN, W. GERMANY WMOR-6 10E53N IP- PCS:

RATT	50 BAUD	4583.0 KHZ	DDK2	1.0 KW
RATT	50 BAUD	7646.0 KHZ	DDH7	1.0 KW
RATT	50 BAUD	11638.0 KHZ	DDK8	2.0 KW
FAX	120 SPM	3855.0 KHZ	DDH3	1.5 KW
FAX	120 SPM	7880.0 KHZ	DDK3	1.0 KW
FAX	120 SPM	13657.0 KHZ	DDH8	2.0 KW

WMO AREA:
ALSO SEE OFFENBACK, W. GERMANY. QUICKBORN IS ALSO KNOWN AS THE HAMBURG/QUICKBORN/PINNEBERG BROADCAST.

RANGOON, BURMA WMOR-2 [illegible] IP-3 PCS: TN-

RATT	BAUD	2510.0 KHZ	XYP	4 KW	
RATT	BAUD	5138.0 KHZ		4 KW	TO BANGKOK
RATT	BAUD	7313.0 KHZ		4 KW	
RATT	BAUD	10181.5 KHZ		4 KW	

WMO AREA: 48.

REUNION see SAINT DENIS, REUNION

RIO DE JANEIRO, BRAZIL WMOR-3 23S43W IP- PCS: TN-

CW		435.0 KHZ	PWZ		10 KW
CW		4244.0 KHZ	PWZ		10 KW
CW		4289.0 KHZ	PWZ		KW
CW		6435.0 KHZ	PWZ		KW
CW		8550.0 KHZ	PWZ		10 KW
CW		8634.0 KHZ	PPR		KW
CW		12687.0 KHZ	PPR		KW
CW		12795.0 KHZ	PWZ		10 KW
CW		17160.0 KHZ	PWZ		10 KW
CW		22530.0 KHZ	PWZ		10 KW
CW		22603.0 KHZ	PPR		KW
FAX	120 SPM	8291.0 KHZ	PPO	0330 & 1800	1 KW
FAX	120 SPM	12025.0 KHZ	PWZ	0330 & 1800	10 KW

WMO AREA:

ROME, ITALY WMOR-6 42N13E IP-3 PCS: ROM TN-87

CW		519.0 KHZ	IAR		KW
CW		4295.0 KHZ	IAR		KW
CW		8530.0 KHZ	IAR		KW
CW		13011.0 KHZ	IAR		KW
CW		17160.0 KHZ	IAR		KW
RATT	50 BAUD	3172.5 KHZ	IMB31	1800-0800	5 KW
RATT	50 BAUD	5887.5 KHZ	IMB32	0000-2400	5 KW
RATT	50 BAUD	11453.0 KHZ	IMB33	0000-2400	5 KW
FAX	120 SPM	4777.5 KHZ	IMB51	0000-2400	5 KW
FAX	120 SPM	8146.6 KHZ	IMB55	0000-2400	5 KW
FAX	120 SPM	13600.0 KHZ	IMB56	0600-2030	5 KW

WMO AREA (RATT): 10-12, 17, 18-20, 26, 28-30, 32, 38-40, AND 62.

ROTA, SPAIN WMOR-6 37N06W IP- PCS: TN-

FAX	120 SPM	7417.0 KHZ	AOK	1900-0700	15 KW	ROTA 8259
FAX	120 SPM	9875.0 KHZ	AOK	0000-2400	40 KW	ROTA 8259
FAX	120 SPM	17683.0 KHZ	AOK	0700-1900	40 KW	ROTA 8259

WMO AREA: ALL FREQS ARE US NAVY FLEET BROADCASTS (KFAX). SCHEDULE IS TRANSMITTED AT 0000.
PREVIOUS FREQS 3713.0, 5206.0, 7626.0, 8100.0, 12184, 12903, 15941.5 KHZ.

SAIGON see HO CHI MINH, VIETNAM

SAINT DENIS, REUNION WMOR-1 21S55E IP-2 PCS: STD TN-79

RATT	50 BAUD	4440.0 KHZ	FZR44	0025-PE3H	10 KW	
RATT	50 BAUD	6898.0 KHZ			5 KW	TO NAIROBI
RATT	50 BAUD	8176.0 KHZ	HXP	0025-PE3H	10 KW	EXCEPT 2125 GMT CLARK 82UU
	50 BAUD	8194.5 KHZ	FZS63	NOTE 1	10 KW	CLARK 82UU
RATT	50 BAUD	16335.0 KHZ		0300-1800	2 KW	CLARK 82UU
RATT	50 BAUD	18496.0 KHZ				
FAX	120 SPM	8176.0 KHZ	HXP		6 KW	
FAX	120 SPM	16335.0 KHZ	FZS63		6 KW	

WMO AREA: 61. NOTE 1: 0325, 0625, 0925, AND 1225.

SAN FRANCISCO, CA WMOR-4 38N122W IP- PCS: TN-

RATT	BAUD	8714.5 KHZ	NMC		KW
RATT	BAUD	17207.0 KHZ	NMC		KW
FAX	120 SPM	4344.1 KHZ	NMC	0100-1700	KW
FAX	120 SPM	8680.1 KHZ	NMC	0000-2400	KW
FAX	120 SPM	12728.1 KHZ	NMC	0000-2400	KW
FAX	120 SPM	17149.3 KHZ	NMC	1700-2400	KW

WMO AREA:

SANTA MARIA, AZORES WMOR-6 37N25W IP-3 PCS: TN-

RATT	BAUD	3194.0 KHZ		2 KW	NOTE 1
RATT	BAUD	5402.0 KHZ		2 KW	NOTE 1
RATT	BAUD	6775.0 KHZ	NIGHT TIME	3 KW	NOTE 2 TO LISBON
RATT	BAUD	8045.0 KHZ		2 KW	NOTE 1
RATT	BAUD	8174.0 KHZ	NIGHT TIME	3 KW	NOTE 2
RATT	BAUD	12233.0 KHZ	DAY TIME	3 KW	NOTE 2
RATT	BAUD	12240.0 KHZ		2 KW	NOTE 1
RATT	BAUD	16234.0 KHZ		2 KW	NOTE 1
RATT	BAUD	18464.0 KHZ	DAY TIME	3 KW	NOTE 2
RATT	BAUD	20130.0 KHZ		2 KW	NOTE 1

WMO AREA: NOTE 1: SANTA MARIA DATA IS RECEIVED FROM LISBON (MONSANTO) BCAST.
NOTE 2: SANTA MARIA DATA IS RECEIVED FROM NEW YORK BCAST. ENTIRE BROADCAST MAY HAVE BEEN DELETED IN OCT 1982. ALSO KNOWN AS HORTA, AZORES.

SANTIAGO DE CHILE, CHILE WMOR-3 33S70W IP-2 PCS: TN-

CW	3772.5 KHZ	CAK	0000-2400	3 KW	TO BUENOS AIRES
CW	6745.5 KHZ	CAK	0000-2400	3 KW	TO BUENOS AIRES
CW	13600.0 KHZ	CAK	0000-2400	3 KW	
CW	18013.5 KHZ	CAK	0000-2400	3 KW	TO BUENOS AIRES

WMO AREA: 85

SANYA, YEMEN WMOR-2 15N44E IP-3 PCS: TN-

RATT	BAUD	4052.0 KHZ		KW
RATT	BAUD	11977.0 KHZ		KW

WMO AREA:

SAO TOME & PRINCIPE, AFRICA WMOR-1 00N06E IP-3 PCS: TN-

CW	4592.0 KHZ	CQN	0000-2400	2.5 KW
CW	5748.0 KHZ	CQN	0000-2400	2.5 KW
CW	6870.0 KHZ	CQN	0000-2400	2.5 KW
CW	9070.0 KHZ	CQN	0000-2400	2.5 KW
CW	10132.5 KHZ	CQN	0000-2400	2.5 KW
CW	11580.0 KHZ	CQN	0000-2400	2.5 KW

WMO AREA: 61.

SCHEVENINGEN, NETHERLANDS WMOR-6 04E52N IP- PCS:

CW	421.0 KHZ	PCH	0930 & 1530	2.0 KW	ALSO 2130 GMT

WMO AREA:

SEOUL, S. KOREA WMOR-2 37N127E IP-3 PCS: SEO TN-88

CW		5810.0 KHZ	HLL	0900-2400	1 KW	
CW		11620.0 KHZ	HLL	0000-2400	1 KW	
RATT	BAUD	5912.7 KHZ	HLL2	0000-2400	3 KW	
RATT	BAUD	7433.5 KHZ	HLL3	0900-2400	1.5 KW	
RATT	BAUD	11645.0 KHZ	HLL4	0000-0900	3 KW	

WMO AREA: 47.

SHANGHAI, CHINA WMOR-2 31N122E IP- PCS: TN-

CW	12870.0 KHZ	XSG	NOTE 1	KW	

WMO AREA: MARINE AREAS. NOTE 1: 0315, 0330, AND 0915-0930.
PSBL CW FREQS: 458.0, 522.5, 4290.0, 6454.0, 8487.0, 12954.0 & 16938.0 KHZ.

SINGAPORE, MALAYSIA WMOR-5 01N104E IP- PCS: SIN TN-82

CW	516.0 KHZ	9VG3		KW	
CW	4322.0 KHZ	9VG54		KW	
CW	6412.0 KHZ	9VG55		KW	

WMO AREA:

SOFIA, BULGARIA WMOR-6 43N23E IP-2 PCS: SOF TN-61

RATT	50 BAUD	3253.0 KHZ	LZF8	1700-0500	5 KW	
RATT	50 BAUD	3365.0 KHZ	LZF4		5 KW	TO TIRANA
RATT	50 BAUD	4813.0 KHZ	LZA8		15 KW	TO DAMASCUS
RATT	50 BAUD	5137.0 KHZ	LZL2		15 KW	TO TIRANA
RATT	50 BAUD	5455.0 KHZ	LZF9	0600-1700	15 KW	NOTE 1
RATT	50 BAUD	6795.0 KHZ	LZM7		5-15 KW	TO TIRANA & AMMAN
RATT	50 BAUD	6750.0 KHZ			KW	PREV COPIED FREQ
RATT	50 BAUD	10750.0 KHZ	LZD5		15 KW	TO TIRANA
RATT	50 BAUD	11063.0 KHZ	LZU2		5-15 KW	TO TIRANA & AMMAN
RATT	50 BAUD	11315.0 KHZ			KW	
FAX	120 SPM	3259.0 KHZ	LZJ8	0430-1415	5 KW	
FAX	120 SPM	5093.0 KHZ	LZJ2	0415-1345	5 KW	

WMO AREA: 01, 02, 06, 11-13, 15, 17, 20, 22, 23, 25-28, 33, 34, 37, 38 AND 40.
NOTE 1: INCHRLIK 82E7 TO TIRANA & DAMASCUS.

STANLEY, FALKLAND IS WMOR-3 52S58W IP- PCS: TN-

RATT	BAUD	5100.0 KHZ	ZHF88	0045 & 1245	7 KW	MAY-SEP
RATT	BAUD	9100.0 KHZ		1515 & 1845	KW	
RATT	BAUD	12300.0 KHZ			KW	

WMO AREA: 88 AND 89.

STOCKHOLM, SWEDEN WMOR-6 59N18E IP- PCS: TN-

RATT	BAUD	5172.5 KHZ	SMA		KW	
RATT	BAUD	10998.0 KHZ	SMA			

WMO AREA:

SVERDLOVSK, USSR WMOR-2 57N61E IP-1 PCS: SVE TN-52

RATT	BAUD	3170.0 KHZ	RBY76	0000-2400	KW	
RATT	BAUD	3200.0 KHZ	ROL78		KW	CROUGHTON 82UU
RATT	BAUD	3255.0 KHZ	RUT73		KW	CROUGHTON 82UU
RATT	BAUD	5010.0 KHZ	RTQ70		KW	
RATT	BAUD	5400.0 KHZ	RTQ71		KW	
RATT	BAUD	6910.0 KHZ	RTQ78		KW	
RATT	BAUD	9043.0 KHZ			KW	
RATT	BAUD	9290.0 KHZ	RUT78		KW	
RATT	BAUD	10990.0 KHZ	RUT78		KW	
RATT	BAUD	13920.0 KHZ			KW	
RATT	BAUD	17365.0 KHZ			KW	
RATT	BAUD	17660.0 KHZ			KW	

WMO AREA: 23, 27, 28, 34, AND 35.

TAIPEI, TAIWAN WMOR-2 25N121E IP-3 PCS: TAI TN-39

CW	3641.0 KHZ	BMB2	1200-2400	2.5 KW	OWADA 82P7
CW	5909.0 KHZ	BMB2	0000-2400	2.5 KW	OWADA 82G8
CW	8117.0 KHZ	BMB2	1200-2400	2.5 KW	OWADA 82P7
CW	13560.0 KHZ	BMB2	0000-1200	2.5 KW	OWADA 82E9

WMO AREA: 46

TAMATAVE, MADAGASCAR WMOR-1 18S49E IP- PCS: TN-

CW	419.0 KHZ	5RS	2.0 KW	
CW	500.0 KHZ	5RS	2.0 KW	
CW	519.0 KHZ	5RS	2.0 KW	
CW	8734.0 KHZ	5RS	1.0 KW	

WMO AREA:

TANANARIVE/ANTANETIBE, MADAGASCAR WMOR-1 [illegible] IP-2 PCS: TAN TN-83

RATT	BAUD	2614.0 KHZ	5ST25	NOTE 1	5 KW	
RATT	BAUD	4525.0 KHZ	5ST28	0035PE3H	5 KW	
RATT	BAUD	7552.0 KHZ	5ST41	0035PE3H	5 KW	NOTE 3.
RATT	BAUD	17400.0 KHZ	5ST83	NOTE 2	5 KW	NOTE 3. ASCENSION IS 82GU.

WMO AREA: 67. NOTE 1: 0035, 0335, 1835, AND 2135. NOTE 2: 0635, 0935, 1235, AND 1535. NOTE 3: WMO No. 9, Vol D, LISTS 10KW VOICE AT 0910.

TASHKENT, USSR WMOR-2 41N69E IP-1 PCS: TAS TN-63

RATT	50 BAUD	3750.0 KHZ	RBV71	1500-0600	KW	
RATT	50 BAUD	5285.0 KHZ			KW	
RATT	50 BAUD	5430.0 KHZ	RBX	0000-2400	KW	INCIRLIK 82F7
RATT	50 BAUD	8083.0 KHZ	ROM5	1400-0200	KW	TO KARACHI INCIRLIK 82F9
RATT	50 BAUD	10130.0 KHZ	RBX73	0300-1400	KW	INCIRLIK 82F7
RATT	50 BAUD	13947.0 KHZ	ROM5	0200-1400	KW	TO KARACHI INCIRLIK 82E9
FAX	NOTE 1 SPM	3280.0 KHZ		0000-2400	KW	PROGRAM 2
FAX	SPM	3690.0 KHZ		1300-0130	KW	PROGRAM 1
FAX	SPM	4365.0 KHZ		0000-2400	KW	PROGRAM 1
FAX	SPM	5090.0 KHZ		0000-2400	KW	PROGRAM 2
FAX	SPM	5285.0 KHZ		0000-2400	KW	PROGRAM 2
FAX	SPM	5890.0 KHZ		0000-2400	KW	PROGRAM 1
FAX	SPM	7570.0 KHZ		0130-1300	KW	PROGRAM 1
FAX	SPM	9150.0 KHZ		0000-2400	KW	PROGRAM 2
FAX	SPM	9340.0 KHZ		0000-2400	KW	PROGRAM 1
FAX	SPM	14982.5 KHZ		0000-2400	KW	PROGRAM 1

WMO AREA: 16, 17, 22-24, 26-29, 33-38, 40-42, 60, AND 62. NOTE 1: FAX SPM IS 60/90/120 TASHKENT TO KARACHI PCS IS: T2K/TN-74. PROGRAM 1 AND 2 DIFFER IN CONTENT.

TBILISI, USSR WMOR-6 42N45E IP-1 PCS: TBI TN-64

RATT	BAUD	4455.0 KHZ	RDK20	0000-2400	KW	10MV NOTE 1	INCIRLIK 82P7
RATT	BAUD	5335.0 KHZ	RDM78	0000-2400	KW	10MV NOTE 1	INCIRLIK 82G9

WMO AREA: 17, 28, 29, 33-38, 40, AND 60. NOTE 1: OPEN PERIOD 0500-0600 PE6H.

TEHRAN, IRAN WMOR-2 36N52E IP-3 PCS: TEH TN-92

RATT	50 BAUD	5343.5 KHZ	9DM9	1500-0300	10 KW	
RATT	50 BAUD	7946.0 KHZ	9DM22		10 KW	TO MOSCOW
RATT	50 BAUD	10686.0 KHZ	9DM17	0000-2400	10 KW	
RATT	50 BAUD	13979.0 KHZ	9DM22		10 KW	
RATT	50 BAUD	17535.0 KHZ	9DM25		10 KW	
RATT	50 BAUD	17553.0 KHZ	9DM27	0300-1500	10 KW	
FAX	90 SPM	8715.0 KHZ	EPD	0530-1000	3 KW	0530 PE½H TILL 0930

WMO AREA: 40.

TIENTSIN, CHINA WMOR-2 39N117E IP-1 PCS: TIE TN-45

CW	3620.0 KHZ	BFP95	1200-2400	KW	OWADA 82PU
CW	4579.0 KHZ	BFP94	1200-2400	KW	OWADA 82PU
CW	4644.0 KHZ	BFP93	1200-2400	KW	OWADA 82G8
CW	5750.0 KHZ	BFP92	0000-2400	KW	OWADA 82G8
CW	6765.0 KHZ	BFP89	0000-2400	KW	OWADA 82G8
CW	7740.0 KHZ	BFP97	1200-2400	KW	OWADA 82E9
CW	7890.0 KHZ	BFP99	0000-1200	KW	OWADA 82PU
CW	9164.0 KHZ	BFP85	0000-1200	KW	OWADA 82PU
CW	11159.0 KHZ	BFP83	0000-1200	KW	OWADA 82G8
CW	14680.0 KHZ	BFP81	0000-1200	KW	OWADA 82E9

WMO AREA: 44-59. PIN-YIN SPELLING IS TIAN-JIN.

TIKSI, USSR WMOR-2 71N129E IP-1 PCS: TIK TN-96

RATT	BAUD	7965.0 KHZ	UHY		VRBL KW		
RATT	BAUD	8165.0 KHZ	UHY		VRBL KW	OWADA 82PU	
RATT	BAUD	8175.0 KHZ	UHY		KW		
RATT	BAUD	8205.0 KHZ	UHY		KW		
RATT	BAUD	10350.0 KHZ	UHY		KW	OWADA 82PU	
RATT	BAUD	11105.0 KHZ	UHY		KW	OWADA 82PU	
RATT	BAUD	11620.0 KHZ	UHY		VRBL KW		
RATT	BAUD	11625.0 KHZ	UHY		VRBL KW		
RATT	BAUD	12315.0 KHZ	UHY		KW		
RATT	BAUD	12320.0 KHZ	UHY		VRBL KW		
RATT	BAUD	13460.0 KHZ	UHY		VRBL KW	OWADA 82PU	
RATT	BAUD	13505.0 KHZ	UHY		KW		
RATT	BAUD	13715.0 KHZ	UHY		VRBL KW	OWADA 82PU	
RATT	BAUD	16450.0 KHZ	UHY		KW		

WMO AREA:
FREQS & XMISSION TIMES VARY.

TIRANA, ALBANIA WMOR-6 41N20E IP-3 PCS: TN-

CW	5100.0 KHZ	ZAG	0015 PE36	1.4 KW	
CW	7100.0 KHZ	ZAG	0015 PE3H	1.4 KW	

WMO AREA: 13.

TOKOYO HEMI, JAPAN WMOR-2 35N139E IP-3 PCS: TOH TN-90

CW	122.5 KHZ	JMC	0848 2000	KW	2018 & 2048	
CW	122.65 KHZ	JMC	1400 1418	KW	1448	
CW	3218.0 KHZ	JMB	0000-2400	1 KW		
CW	4298.0 KHZ	JMC	1400 1418	KW	1448	
CW	6397.0 KHZ	JMC	1400 1418	KW	1448	
CW	7515.0 KHZ	JMB2	0000-2400	2 KW		
CW	8526.0 KHZ	JMC	1400 1418	KW	1448	
CW	12840.0 KHZ	JMC	0848 2000	KW	2018 & 2048	
CW	14605.0 KHZ	JMB3	0000 2400	2 KW		
CW	17029.0 KHZ	JMC	0848 2000	KW	2018 & 2048	
RATT	BAUD 4532.5 KHZ	JMI	0000-2400	5 KW		
RATT	BAUD 7376.0 KHZ	JMI2	0000-2400	5 KW		
RATT	BAUD 13963.0 KHZ	JMI3	0000-2400	5 KW		
RATT	BAUD 18381.0 KHZ	JMI4	0000-2400	5 KW		
FAX	120 SPM 3365.0 KHZ	JMJ	0000-2400	5 KW	DEC 76	
FAX	120 SPM 3622.5 KHZ	JMH	0000-2400	5 KW		
FAX	120 SPM 5405.0 KHZ	JMJ2	0000-2400	5 KW		
FAX	120 SPM 7305.0 KHZ	JMH2	0000-2400	5 KW		
FAX	120 SPM 9438.0 KHZ	JMJ3	0000-2400	5 KW		
FAX	120 SPM 9970.0 KHZ	JMH3	0000-2400	5 KW		
FAX	120 SPM 13597.0 KHZ	JMH4	0000-2400	5 KW		
FAX	120 SPM 14692.5 KHZ	JMJ4	0000-2400	5 KW		
FAX	120 SPM 18130.0 KHZ	JMJ5	0000-2400	5 KW		
FAX	120 SPM 18220.0 KHZ	JMH5	0000-2400	5 KW		
FAX	120 SPM 22770.0 KHZ	JMH6	0000-2400	5 KW		

WMO AREA: CW: 20, 23-25, 28-32, 36, 45-48, 50, 53, 54, 57-59, 91, AND 98. NORTHERN HEMISPHERIC RATT: 01-04, 06-08, 10-13, 15-18, 20-38, 40-43, 45-48, 50-65, 70, 72, 74-81, 91, 96-98.

TOKYO SUB-R, JAPAN WMOR-2 35N139E IP-3 PCS: IOS TN-91

RATT	50 BAUD	3670.0 KHZ	JMG	0000-2400	2 KW	
RATT	50 BAUD	5402.5 KHZ	JMG2	0000-2400	5 KW	
RATT	50 BAUD	7402.5 KHZ	JMG3	0000-2400	5 KW	
RATT	50 BAUD	13430.0 KHZ	JMG4	0000-2400	5 KW	
RATT	50 BAUD	18529.0 KHZ	JMG5	0000-2400	5 KW	
RATT	50 BAUD	23728.0 KHZ	JMG6	0000-2400	5 KW	

WMO AREA: SUB-REGIONAL RATT: 21, 23, 24, 28-32, 35, 36, 38, 44-48, 50-59, 70, 91, AND 96.

TRIPOLI, LIBYA WMOR-1 33N13E IP-3 PCS: TN-

RATT	50 BAUD	4572.5 KHZ			10 KW	
RATT	BAUD	5437.0 KHZ		0000-2400	10 KW	TO CAIRO
RATT	50 BAUD	5880.0 KHZ			10 KW	TO ALGIERS PSBL 5810.0
RATT	50 BAUD	7491.5 KHZ			10 KW	TO ALGIERS
RATT	50 BAUD	9467.0 KHZ			10 KW	TO CAIRO PSBL 9476.0
RATT	50 BAUD	10395.0 KHZ			10 KW	TO ALGIERS
RATT	50 BAUD	15553.0 KHZ			10 KW	TO CAIRO

WMO AREA: FREQS XMIT UPPER & LOWER SIDE BAUD.

ULAN BATOR, MONGOLIA WMOR-2 48N107E IP-1 PCS: ULB TN-37

RATT	BAUD	3865.0 KHZ	JTM	1200-0000	5 KW	
RATT	BAUD	6800.0 KHZ	JBA4	0000-1200	5 KW	
FAX	90 SPM	3865.0 KHZ		0150 & 0450	5 KW	NOTE 1
FAX	90 SPM	9150.0 KHZ		0750 & 1950	5 KW	
FAX	90 SPM	10185.0 KHZ		2250	5 KW	
FAX	90 SPM	11150.0 KHZ			5 KW	

WMO AREA: 44. NOTE 1: BCAST IS INTENDED TO BE RECEIVED IN A RADIUS OF 1500 KM.

VACOAS, MAURITIUS WMOR-1 56E21S IP- PCS: TN-

CW	421.0 KHZ	3BA	NOTE 1	KW

WMO AREA: NOTE 1: 0148, 0448, 0748, 1348, 1648, AND 2048.

VANCOUVER B.C., CANADA WMOR-4 49N123W IP- PCS: TN-

RATT	BAUD	4354.0 KHZ	VAI		KW	
RATT	BAUD	13091.5 KHZ	VAI		KW	

WMO AREA:

VIENNA, AUSTRIA WMOR-6 48N16E IP-3 PCS: TN-

RATT	BAUD	3894.0 KHZ	OEM43	2000-0300	KW	VOLMET BCAST
RATT	BAUD	3965.0 KHZ	OEM53	2000-0300	KW	
RATT	BAUD	5327.6 KHZ	OEM25	1600-0700	KW	
RATT	50 BAUD	5828.1 KHZ	OEM35	1600-0700	KW	MOTNE LOOP 1
RATT	50 BAUD	7584.0 KHZ	OEM47	0000-2400	KW	MOTNE LOOP 2
RATT	BAUD	10118.5 KHZ	OEM60	0300-2000	KW	ICAO CONTROLLED
RATT	BAUD	10526.5 KHZ	OEM70	0300-2000	KW	
RATT	BAUD	14893.3 KHZ	OEM64	0700-1600	KW	AFTN BCAST
RATT	BAUD	15601.X KHZ	OEM75	0700-1600	KW	NOTE 1

WMO AREA: NOTE 1: FREQ IS 15601.75. THE MAIN MOTNE LOOP CONSIST OF TWO (66 WPM) CIRCUITS (LOOPS) USED FOR THE COLLECTION AND DISSEMINATION OF DATA.

VIENTIANE, LAOS WMOR-2 18N103E IP-3 PCS: VIE TN-43

CW		8194.0 KHZ	XWZ1	0035-1245	1 KW	
RATT	BAUD	5166.0 KHZ		0000-PE3H	1 KW	
RATT	BAUD	7895.0 KHZ		0035-	1 KW	TO BANGKOK
RATT	BAUD	8194.0 KHZ		0100 PE12H	1 KW	
RATT	BAUD	9895.0 KHZ		0130 PE6H	1 KW	
RATT	BAUD	10048.0 KHZ			1 KW	

WMO AREA: 48.

VILLA, PERU WMOR-3 12S77W IP-3 PCS: TN-

CW	13415.0 KHZ	OAB41	NOTE 1	5 KW	

WMO AREA: 84. NOTE 1: 0045, 1345, AND 1900. ALSO SEE LA PUNTA & LIMA, PERU.

WALVIS BAY, SOUTH AFRICA WMOR-1 23S14E IP- PCS: TN-

CW 519.0 KHZ ZSV 1350 KW

WMO AREA: ALSO SPELLED WALVISBAAI.

WARSAW, POLAND WMOR-6 52N21E IP-2 PCS: WAR TN-93

RATT	50 BAUD	4497.0 KHZ	SOE349	0000-2400	10 KW	ROTA 82G1
RATT	50 BAUD	7997.0 KHZ	SOH299	0015 PE3H	5 KW	ROTA 82G1

WMO AREA: 10-12. ALSO SPELLED WARSZAWA.

WASHINGTON DC, USA WMOR-4 39N78W IP- PCS: TN-

FAX	120 SPM	9290.0 KHZ	WFA29	0705-1212	15 KW	165 DEGREES
FAX	120 SPM	9389.5 KHZ	WFH29	0705-1212	15 KW	180 & 210 DEGREES
FAX	120 SPM	11035.0 KHZ	WFL51	0705-1212	15 KW	230 DEGREES
FAX	120 SPM	17436.5 KHZ	WFK67	1950-2350	15 KW	165 DEGREES

WMO AREA: BCAST IS BEAMED IN DIRECTION INDICATED. TRANSMITTER AT BRENTWOOD, LONG ISLAND (41N73W). ADDITIONAL FREQS: 9372.5, 10250.0, 10757.5, 13847.5, 14740, 14732.5, 14755.0, 15480.0, 15820.0, 17425.0, 17422.5, 18447.5 & 18450.5.

WELLINGTON, NEW ZEALAND WMOR-5 41S174E IP-3 PCS: WEL TN-89

CW	513.0 ZLZ	0840 0910	KW		
CW	5915.0 ZLZ	0840 0910	KW	2040 & 2110	
CW	7600.0 ZLZ	0840 0910	KW	2040 & 2110	
CW	11130.0 ZLZ	0840 0910	KW	2040 & 2110	
CW	14850.0 ZLZ	0840 0910	KW	2040 & 2110	
CW	19488.0 ZLZ	2040 2110	KW		

RATT	BAUD	5915.0 KHZ	ZLZ20	0030-PE1H	5 KW	NIGHT TIME
RATT	BAUD	7600.0 KHZ	ZLZ22	0000-2400	5 KW	
RATT	BAUD	11130.0 KHZ	ZLX22	0000-2400	5 KW	
RATT	BAUD	14850.0 KHZ	ZLX37	0000-2400	5 KW	
RATT	BAUD	19488.0 KHZ	ZLX31	0030-PE1H	5 KW	DAY TIME. CLARK 82UU.

WMO AREA: 91 AND 93. LOCATED AT WELLINGTON/HIMATANGI, NEW ZEALAND. RATT BROADCASTS CEASED 29 SEP 1982.

YAKUTSK, USSR WMOR-2 62N130E IP-1 PCS: YAK TN-41

RATT	BAUD	4850.0 KHZ			KW
RATT	BAUD	7670.0 KHZ	RC70	0000-2400	KW
RATT	BAUD	10665.0 KHZ	RC71	0025-0925	KW

WMO AREA: 21, 23-25, 30, AND 31.

GEORGE E. CHAPMAN, *Colonel, USAF*
Commander

OLEN O. DRAIN
Administration Officer

SUMMARY OF CHANGES

Updates references to AFCC (was AFCS), MACR/AFCCR 100-8 (was MACR 100-1/AFCCR 100-8), RCS: CSV-XOP (D&M) 7701 Daily/Monthly (was AFCS RCS: CSV-DOD 7701 Daily), Chapter 3 (was cAhapter 4) and Chapter 4 (was Chapter 3); clarifies AFCC/AWS relationships and responsibilities to mesh with the new AFCCR 100-18 (Chapters 1 and 2); includes site/position numbers for all RATT and CW positions, adds the Diego Garcia and Elmendorf facilities, and alphabetizes all facilities (Chapter 3); combines all CW, RATT, and fax broadcast locations, and revises all listings (Chapter 4); adds "broadcasts by location and type" (Atch 1); adds WMO Region Maps (Atch 2); and adds GWIP target identification codes (Atch 3).

Distribution: F; X

242 CMBTCS (TAB), PO Box 19066, Spokane IAP, WA 99219	1
1989 CG/DONJD, APO NY 09283	1
Commanding Officer, ATTN: CWO 2 Walters, NAVCOMMSTA NEA Makri Gr, FPO NY 09525	2
Commanding Officer, NCSP Receivers Division, FPO SF 96656	2
UL/LDEA, Maxwell AFB, AL 36112	1
2048 CS/AWNMC, Carswell AFB, TX 76127	1
Commander, Naval Telecommunications Command, ATTN: Codes 02/03, 4401 Mass Av NW, Wash DC 20390	2
HQ JSOC/WX, PO Box 70239, Ft Bragg, NC 28307	1
2168 Comm Sq/DONJD, APO NY 09378	2
1956 Comm Gr/DONJ, APO SF 96328	2
HQ 162 CMBTCG/DA, 3900 Rosseville Rd, North Highlands ANGS, CA 95660	2
DIRNSA, ATTN: A224, Ft Meade, MD 20755	1
3350 TCHTG/TTGU-W, Stop 62, Chanute AFB, IL 61868	3
1961 CG/DONJD, APO SF 96274	1
Commander, 6th US Army, ATTN: AFKC-OP-IS (SWO), Presidio of San Francisco CA 94129	2
234 CMBTCS/DON, 1525 W. Winton Ave, Hayward ANG Station CA 94545	1
Commander, NAVOCEANCOM, National Space Technology Laboratory (NSTL), Bay St. Louis, MS 39529	55
Commanding Officer, Fleet Numerical Oceanography Center, Monterey, CA 93940	1
ECD/DONR/DOYR, APO NY 09012	2
201 CMBTCS/DON, 1046 Leilani St, Hilo Hawaii 96720	1
Det 7 AFGWC/CC, Carswell AFB TX 76127	2
FL 2828/ESMC, Technical Library (MU-135), PO Box 4608, Patrick AFB FL 32925 (includes ASC IS)	3
201 Combat Communications Flight Wailuku Armory Rm 6, Wailuku Maui HI 96793	1
202 CMBTCF/DO, Hickam AFB HI 96853	1
2006 CG/DONJD, APO NY 09289	2
238 Combat Communications Squadron, ATTN: TSgt Jenkins, PO Box 1825, Meridian, Miss 39301	1

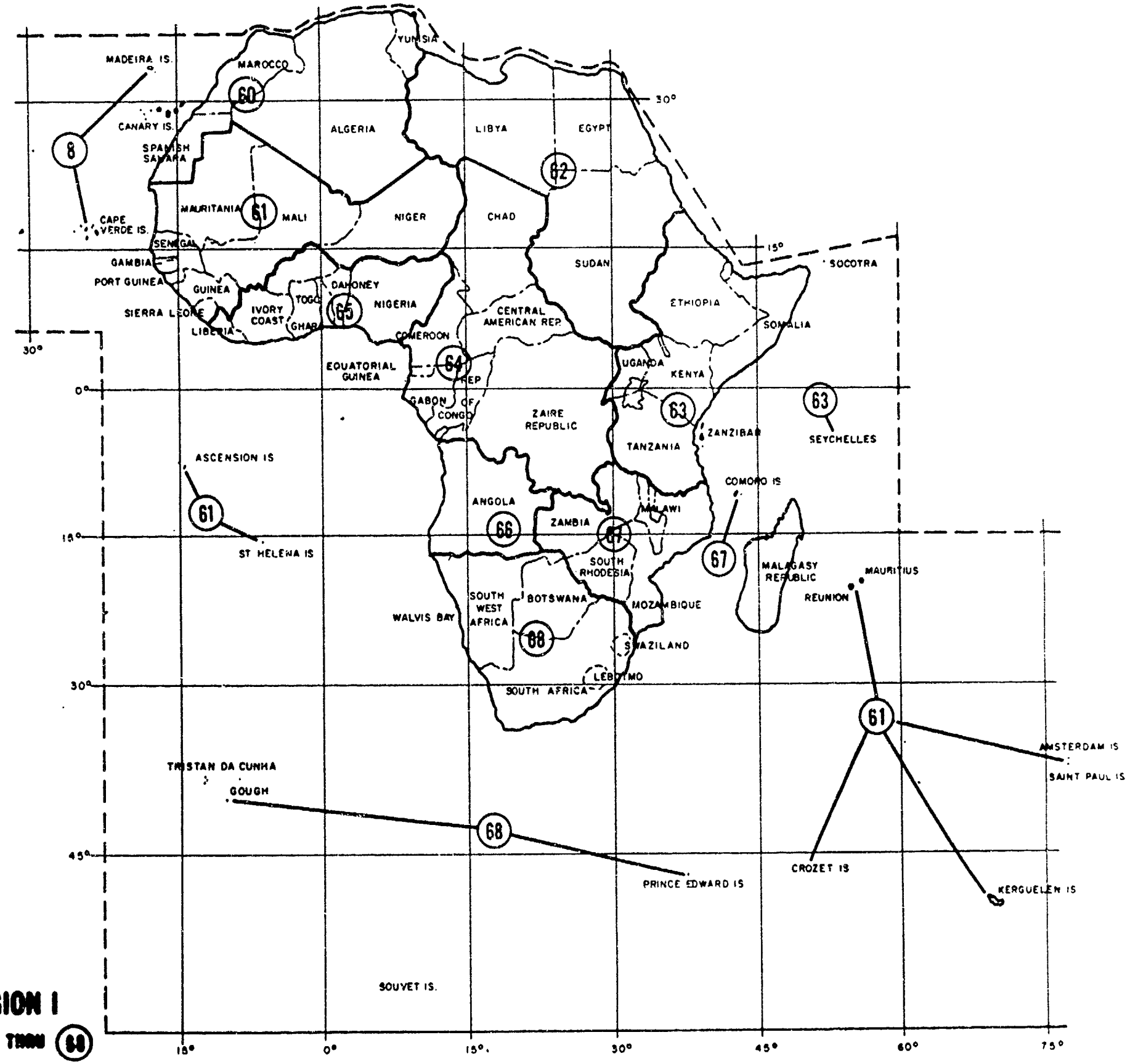
BROADCAST BY LOCATION AND TYPE

WMO REGION	BROADCAST TYPE	CITY AND COUNTRY	PAGE
1	RATT	ADDIS ABABA, ETHIOPIA	4-02
2	RATT	ADEN, YEMEN	4-02
1	RATT	ALGIERS, ALGERIA	4-02
2	RATT	ALMA ATA, USSR	4-02
6	RATT	AMMAN, JORDAN	4-02
6	RATT FAX	ANKARA, TURKEY	4-02
6	CW RATT	ANTARTIC METEOROLOGICAL CENTER	4-03
		ANTANARIVO see TANANARIVE, MADAGASCAR	4-43
6	RATT	ARCHANGEL, USSR	4-03
4	CW	ASTORIA, OR	4-03
6	RATT FAX	ATHENS, GREECE	4-04
5	FAX	AUCKLAND, NEW ZEALAND	4-04
2	RATT	BAGHDAD, IRAQ	4-04
1	RATT	BAMAKO, MALI	4-04
2	RATT FAX	BANGKOK, THAILAND	4-04
1	RATT	BANGUI, CENTRAL AFRICAN REPUBLIC	4-05
5	CW	BAUCAU, PORTUGUESE TIMOR	4-05
		BEIJING see PEKING, CHINA	4-35
6	RATT	BEIRUT, LEBANON	4-05
3	CW	BELEM, BRAZIL	4-05
6	FAX	BELGRADE, YUGOSLAVIA	4-05
3	FAX	BELLOTO, CHILE	4-06
		BEOGRAD see BELGRADE, YUGOSLAVIA	4-05
6	RATT	BET DAGAN, ISRAEL	4-06
1	RATT	BIGARA, MAURITIUS IS	4-06
4	CW RATT FAX	BOLINAS, CA	4-06
4	RATT FAX	BOSTON, MA	4-06
6	RATT FAX	BRACKNELL, UNITED KINGDOM	4-07
3	RATT	BRAZZAVILLE, CONGO	4-07
4		BRENTWOOD, NY see WASHINGTON, DC, USA	4-08
6	RATT	BUCHAREST, ROMANIA	4-08
6	RATT	BUDAPEST, HUNGARY	4-08
3	RATT FAX	BUENOS AIRES, ARGENTINA	4-08
1	RATT FAX	CAIRO, EGYPT	4-09
2	CW	CALCUTTA, INDIA	4-09
		CALLAO see LA PUNTA, PERU	4-24
5	RATT FAX	CANBERRA, AUSTRALIA	4-09
2	CW	CANTON, CHINA	4-09
	CW RATT	CAPE NAVAL, SOUTH AFRICA	4-10
5	CW	CARNARVON, AUSTRALIA	4-10
1	CW	CASABLANCA, MOROCCO	4-10
3	RATT	CAYENNE, FRENCH GUIANA	4-10
2	CW	CHANGSHA, CHINA	4-10
2	CW	CHENGDU I, CHINA	4-11
2	CW	CHENGDU II, CHINA	4-11
6	RATT	COLOGNE, W. GERMANY	4-11
1	CW	CONAKRY, GUINEA	4-11
6	FAX	COPENHAGEN, DENMARK	4-11
1	RATT FAX	DAKAR, SENEGAL	4-12
6	RATT	DAMASCUS, SYRIA	4-12

WMO REGION	BROADCAST TYPE	CITY AND COUNTRY	PAGE
2	CW	DANANG, VIETNAM	4-12
5	RATT FAX	DARWIN, AUSTRALIA	4-12
2	RATT	DIKSON, USSR	4-13
		DJAKARTA see JAKARATA, INDONESIA	4-20
1	RATT	DOUALA, CAMERON	4-13
4	FAX	EDMUNTON ALBERTA, CANADA	4-14
6	FAX	EPISKOPI, CYPRUS	4-14
4	FAX	ESQUIMALT B.C., CANADA	4-14
	CW FAX	FORT de FRANCE, MARTINIQUE	4-14
4	FAX	FROBISHER BAY N.W.T., CANADA	4-14
3	RATT	GRYTVIKEN, S. GEORGIA IS.	4-15
5	RATT FAX	GUAM, MARIANA IS.	4-15
		GUANGZHOU see CANTON, CHINA	4-09
2	CW	HAIPHONG, VIETNAM	4-16
2	CW	HAKODATE, JAPAN	4-16
4	RATT FAX	HALIFAX N.S., CANADA	4-16
6	FAX	HAMBURG, W. GERMANY	4-17
2	RATT	HANKOW, CHINA	4-17
2	RATT	HANOI, VIETNAM	4-17
		HEIFEI see HOFEI, CHINA	4-18
6	CW FAX	HELSINKI METRO, FINLAND	4-18
2	CW	HO CHI MINH, VIETNAM	4-18
2	CW	HOFEI, CHINA	4-18
2	CW	HONG KONG	4-18
5	FAX	HONOLULU, HAWAII	4-19
6	CW RATT	HORTA, AZORES	4-19
2	CW RATT	IRKUTSK, USSR	4-19
4	CW	IXTAPALAPA, MEXICO	4-19
5	RATT	JAKATA, INDONESIA	4-20
2	RATT	JEDDAH, SAUDI ARABIA	4-20
2	RATT	KABUL, AFGHANISTAN	4-21
1	RATT	KANO, NIGERIA	4-21
2	RATT	KARACHI, PAKISTAN	4-22
		KENYA see NAIROBI, KENYA	4-30
2	RATT FAX	KHABAROVSK I, USSR	4-22
2	RATT	KHABAROVSK II, USSR	4-22
1	RATT	KHARTOUM, SUDAN	4-23
6	RATT	KIEV, USSR	4-23
2	CW	KOBE, JAPAN	4-23
4	FAX	KODIAK, ALASKA	4-23
5	RATT	KUALA LUMPUR, MALAYSIA	4-23
2	CW	KUSHIRO, JAPAN	4-23
6	RATT	KUYBYSHEV, USSR	4-24
4	FAX	LA JOLLA, CA	4-24
2	RATT	LANCHOW, CHINA	4-24
		LANZHOU see LANCHOW, CHINA	4-24
3	CW	LA PUNTA, PERU	4-24
5	RATT	LA TONTOUTA, NEW CALEDONIA	4-24
6	RATT	LENINGRAD, USSR	4-25
1	RATT	LIBREVILLE, GABON	4-25
3	CW	LIMA, PERU	4-25
1	CW	LOME, TOGO	4-25
		LONG ISLAND, NY see WASHINGTON DC, USA	4-48
4		LOS ANGELES, CA	4-25
1	CW	LUANDA, ALGOLIA	4-26

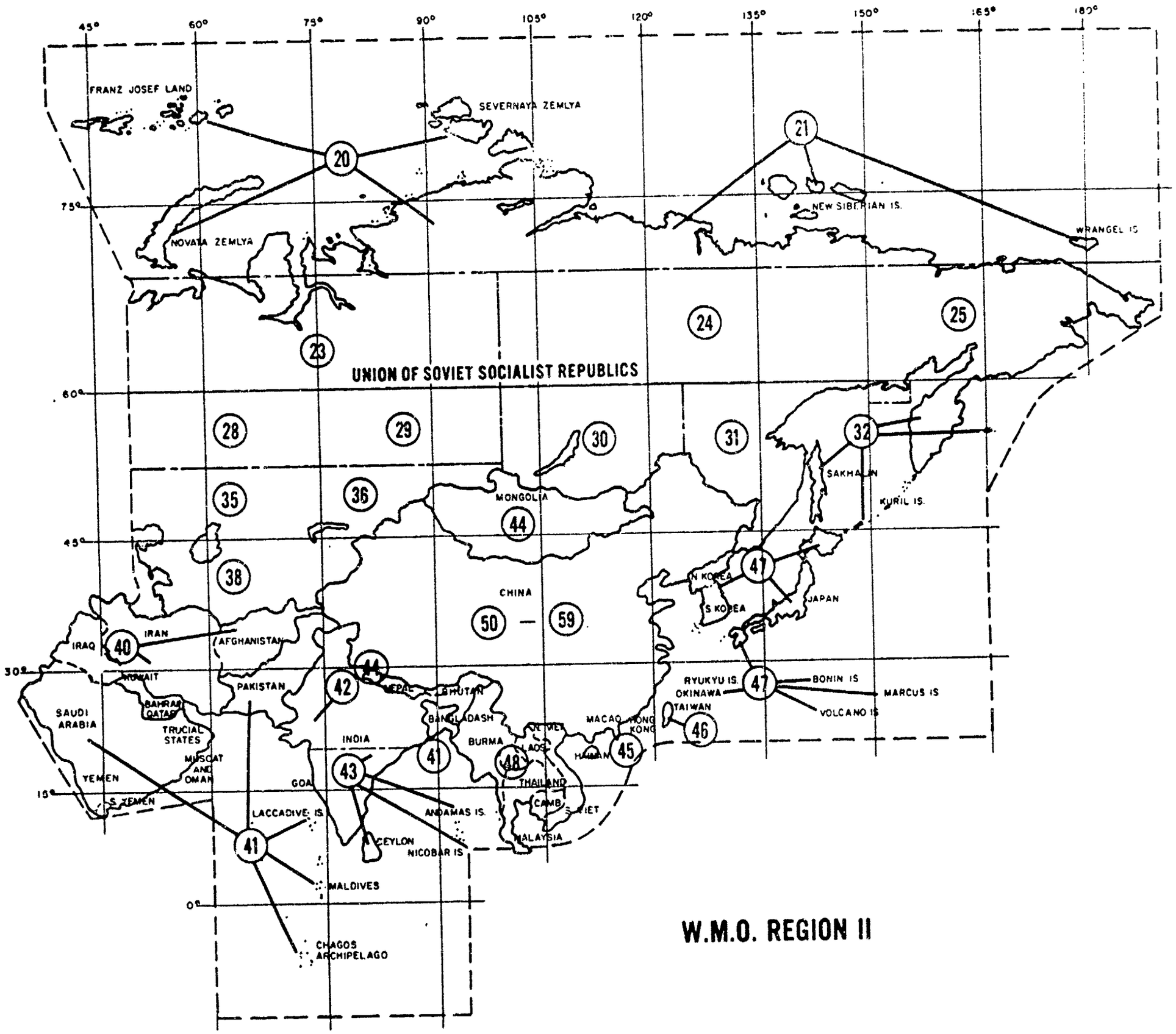
WMO REGION	BROADCAST TYPE	CITY AND COUNTRY	PAGE
1	CW	LUNGI, SIERRA LEONE	4-26
2	CW	MACAO, MACAU.	4-26
6	FAX	MADRID, SPAIN	4-26
2	RATT	MAGADAN, USSR	4-26
5	RATT	MANILA, PHILIPPINES	4-26
3	RATT	MARACAY, VENEZUELA.	4-27
	CW	MAURITUS, MAURITUS IS	4-27
		MELBOURNE see CANBERRA, AUSTRALIA	4-09
4	RATT	MIAMI, FLORIDA.	4-27
2	CW	MINGALADON, BURMA	4-27
6	RATT	MINSK, USSR	4-28
4	RATT	MOBILE, ALABAMA	4-28
1	RATT	MOGADISCIO, SOMALIA	4-28
	FAX	MOLODEZHNAIA, ANTARTIC.	4-28
6	FAX	MONSANTO, PORTUGAL.	4-28
6	RATT FAX	MOSCOW HEMI, USSR	4-29
6	RATT	MOSCOW SUB-R, USSR.	4-29
6	FAX	MURMANSK, USSR	4-29
	CW	NAGOYO, JAPAN	4-30
1	RATT FAX	NAIROBI, KENYA.	4-30
1	RATT	NDJAMENA, CHAD.	4-30
2	RATT FAX	NEW DELHI REGIONAL, INDIA	4-31
		NEW DELHI TERRITORIAL, INDIA.	4-31
4	RATT	NEW YORK, NY.	4-31
2	CW	NHA TRANG, VIETNAM.	4-31
1	RATT	NIAMEY, NIGER	4-31
2	CW	NIIGATA, JAPAN.	4-32
4	FAX	NORFOLK, VA	4-32
6	FAX	NORRKPING, SWEDEN	4-32
6	FAX	NORTHWOOD, UNITED KINGDOM	4-32
1	CW RATT	NOUAKCHOTT, MAURITANIA.	4-32
2	RATT FAX	NOVOSIBIRSK, USSR	4-33
6	RATT FAX	OFFENBACK, W. GERMANY	4-33
3	CW	OLINDA, BRAZIL.	4-34
	FAX	ORCADAS, S. ORKNEY IS	4-34
6	RATT FAX	OSLO, NORWAY.	4-34
5	RATT	PAPEETE, FRENCH POLYNESIA	4-34
6	RATT FAX	PARIS, FRANCE	4-35
2	CW RATT FAX	PEKING, CHINA	4-35
2	RATT	PETROPAVLOVSK see KHABAROVSK II, USSR	4-22
2	RATT	PHNOM PEHN, KAMPUCHEA	4-36
4		POINT REYES see BOLINAS CA, USA	4-06
6	RATT	POTSDAM, E. GERMANY	4-36
5	RATT	PORT VILA, NEW HEBRIDES	4-36
6	CW	PORTISHEAD, ENGLAND	4-36
6	FAX	PRAGUE, CZECHOSLOVAKIA.	4-36
1	RATT FAX	PRETORIA, SOUTH AFRICA.	4-37
2	CW RATT	PYONGYANG, N. KOREA	4-37
6	CW FAX	QUICKBORN, W. GERMANY	4-37
2	RATT	RANGOON, BURMA.	4-38
		REUNION see SAINT DENIS, REUNION	4-38
3	FAX	RIO de JANEIRO, BRAZIL.	4-38
6	RATT FAX	ROME, ITALY	4-38
6	FAX	ROTA, SPAIN	4-39
		SAIGON see HO CHI MINH, VIETNAM	4-39

WMO REGION	BROADCAST TYPE	CITY AND COUNTRY	PAGE
1	RATT FAX	SAINT DENIS, REUNION	4-39
4	RATT FAX	SAN FRANCISCO, CA.	4-39
6	RATT	SANTA MARIA, AZORES.	4-40
3	CW	SANTIAGO DE CHILE, CHILE	4-40
2	RATT	SANYA, YEMEN	4-40
1	CW	SAO TOME & PRINCIPE, AFRICA.	4-40
6	CW	SCHEVENINGEN, NETHERLANDS.	4-40
2	CW RATT	SEOUL, S. KOREA.	4-41
2	CW	SHANGHAI, CHINA.	4-41
2		SINGAPORE.	4-41
6	RATT FAX	SOFIA, BULGARIA.	4-41
3	RATT	STANLEY, FALKLAND IS	4-41
6	RATT	STOCKHOLM, SWEDEN.	4-42
2	RATT	SVERDLOVSK, USSR	4-42
2	CW	TAIPEI, TAIWAN	4-42
1	CW	TAMATAVE, MADAGASCAR	4-42
1	CW RATT	TANANARIVE/ANTANETIBE, MADAGASCAR.	4-43
2	RATT FAX	TASHKENT, USSR	4-43
6	RATT	TBILISI, USSR.	4-44
2	RATT FAX	TEHRAN, IRAN	4-44
2	CW	TIANJIN see TIENTSIN, CHINA.	4-44
2	CW	TIENTSIN, CHINA.	4-44
2	RATT	TIKSI, USSR.	4-45
6	CW	TIRANA, ALBANIA.	4-45
2	CW RATT FAX	TOKYO HEMI, JAPAN	4-45
2	RATT	TOKYO SUB-R, JAPAN.	4-46
1	RATT	TRIPOLI, LIBYA	4-46
2	RATT FAX	ULAN BATOR, MONGOLIA	4-46
1	CW	VACOAS, MAURITIUS.	4-46
4	RATT	VANCOUVER B.C., CANADA	4-47
6	RATT	VIENNA, AUSTRIA.	4-47
2	CW RATT	VIENTIANE, LAOS.	4-47
3	CW	VILLA, PERU.	4-47
1	CW	WALVIS BAY, SOUTH AFRICA	4-48
6	RATT	WARSAW, POLAND	4-48
4	FAX	WASHINGTON DC, USA	4-48
5	RATT	WELLINGTON, NEW ZEALAND.	4-48
2	RATT	YAKUTSK, USSR.	4-48

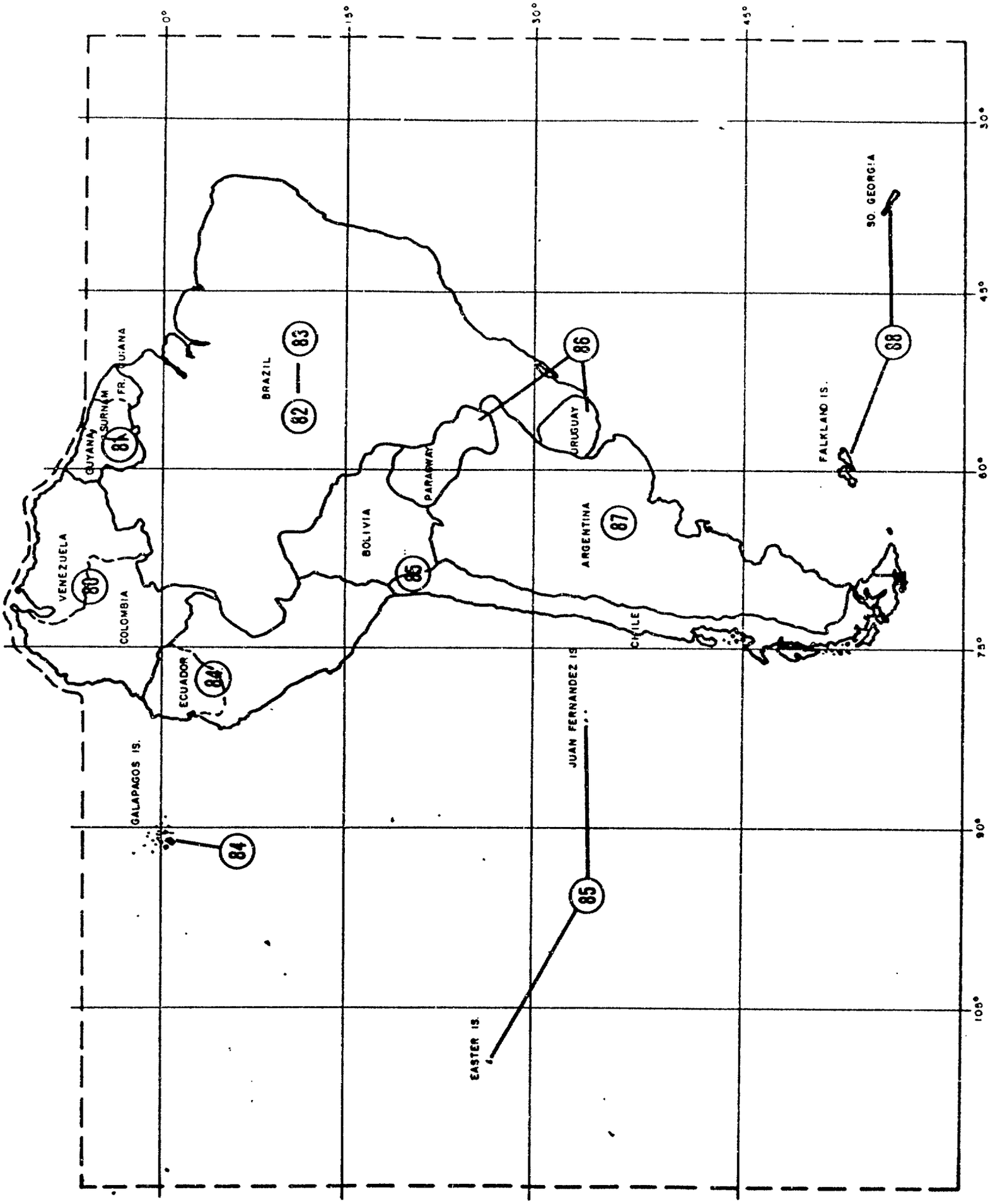


W.M.O. REGION I

BLOCKS (8) AND (60) THRU (68)

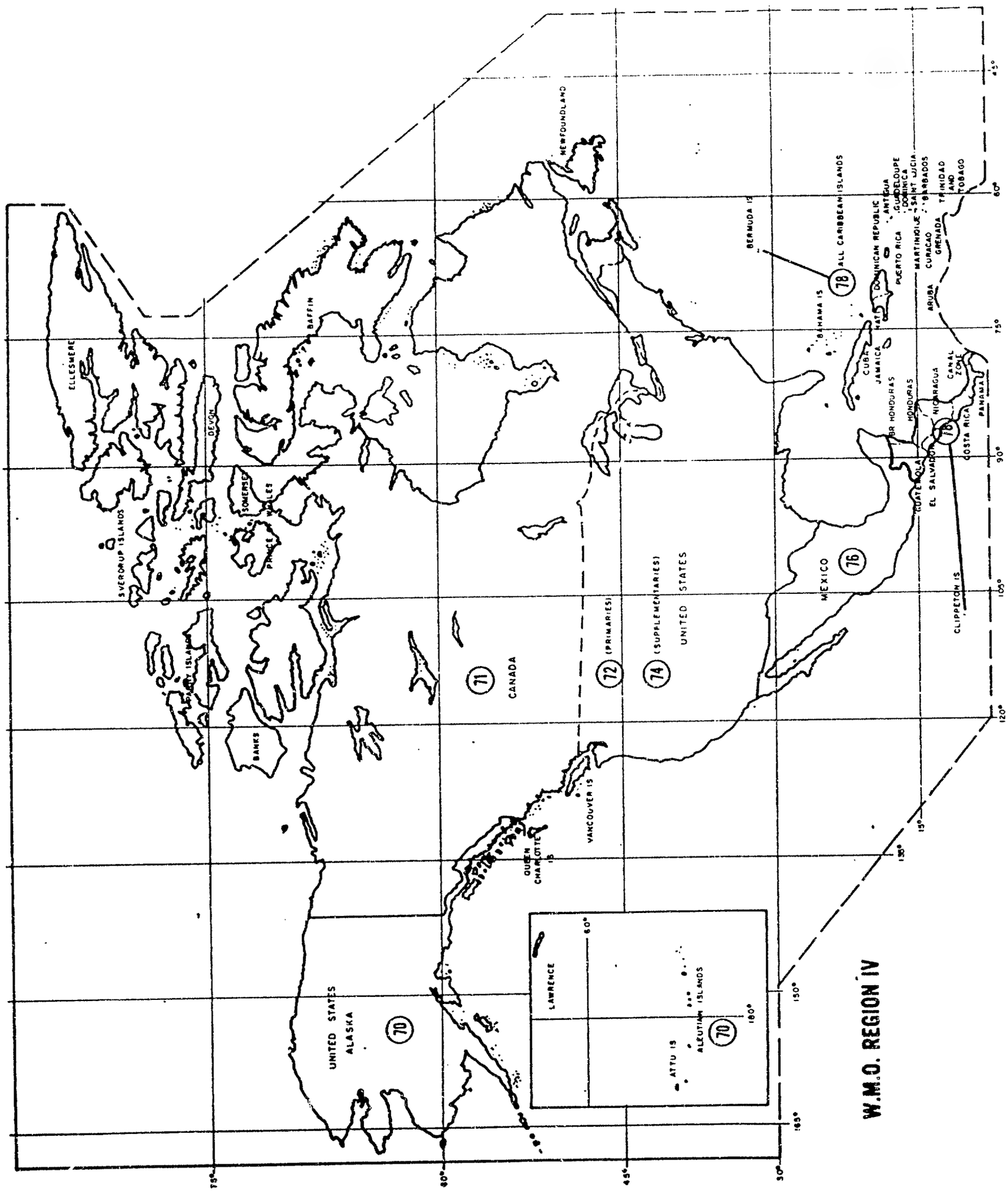


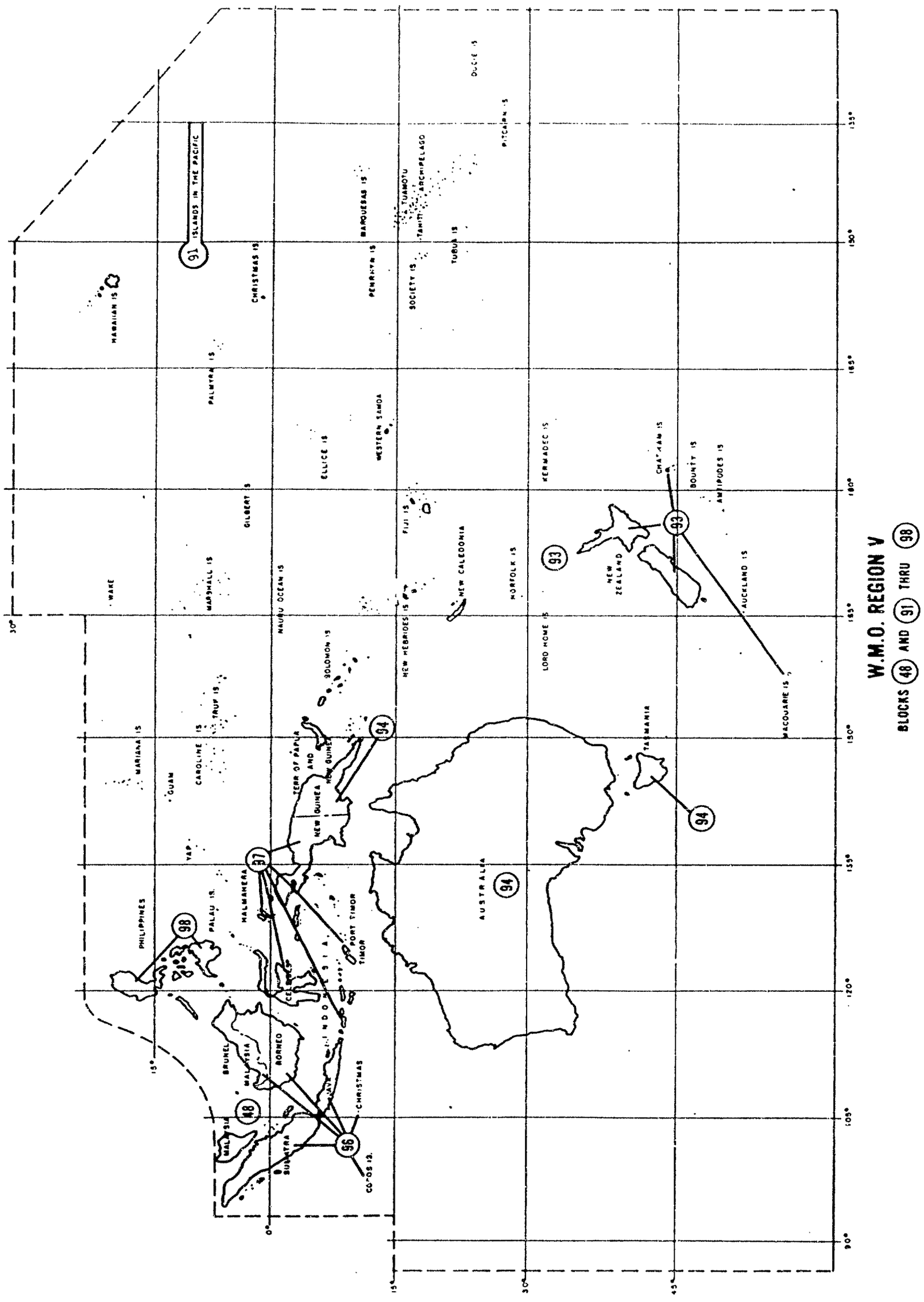
W.M.O. REGION II

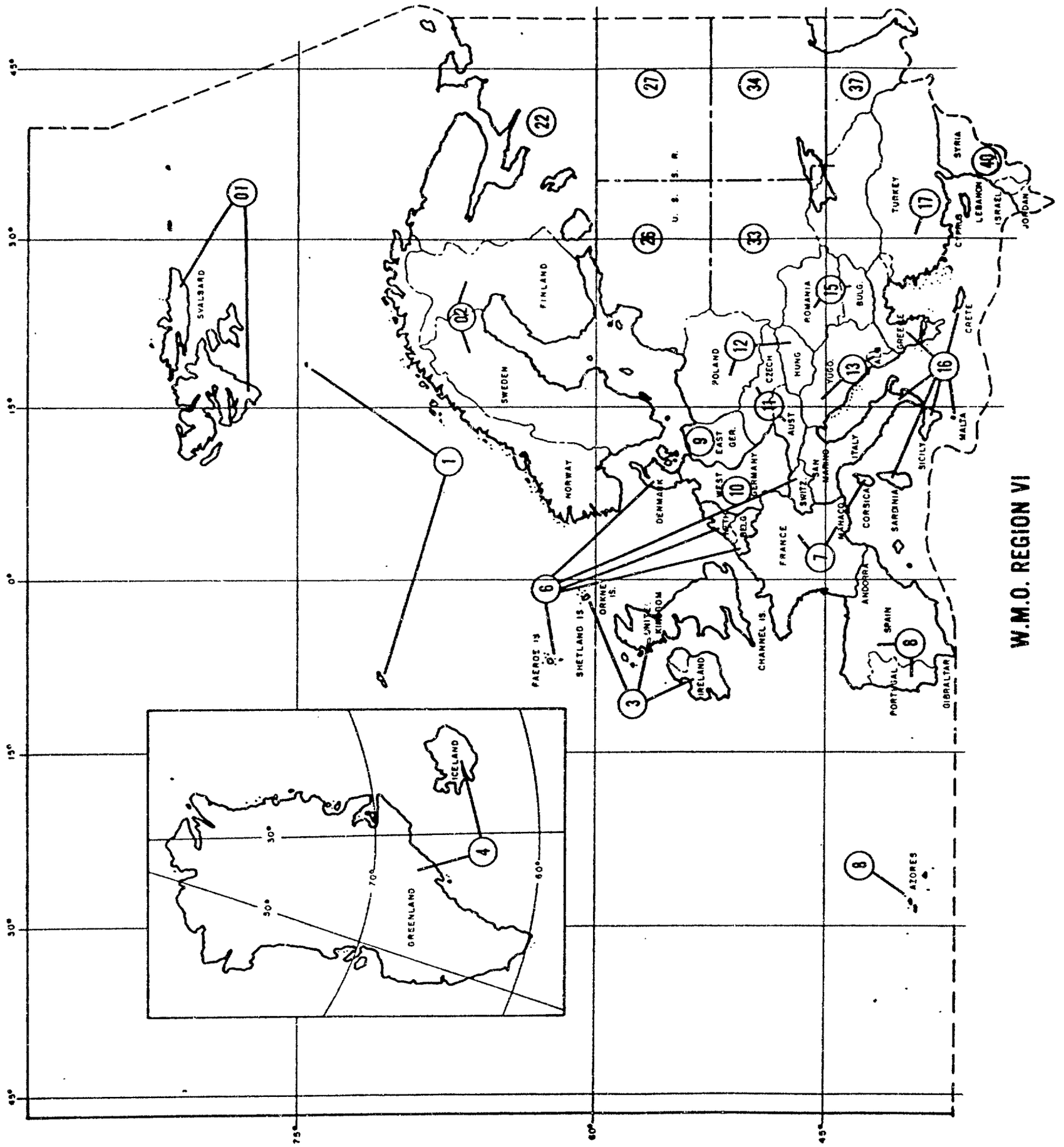


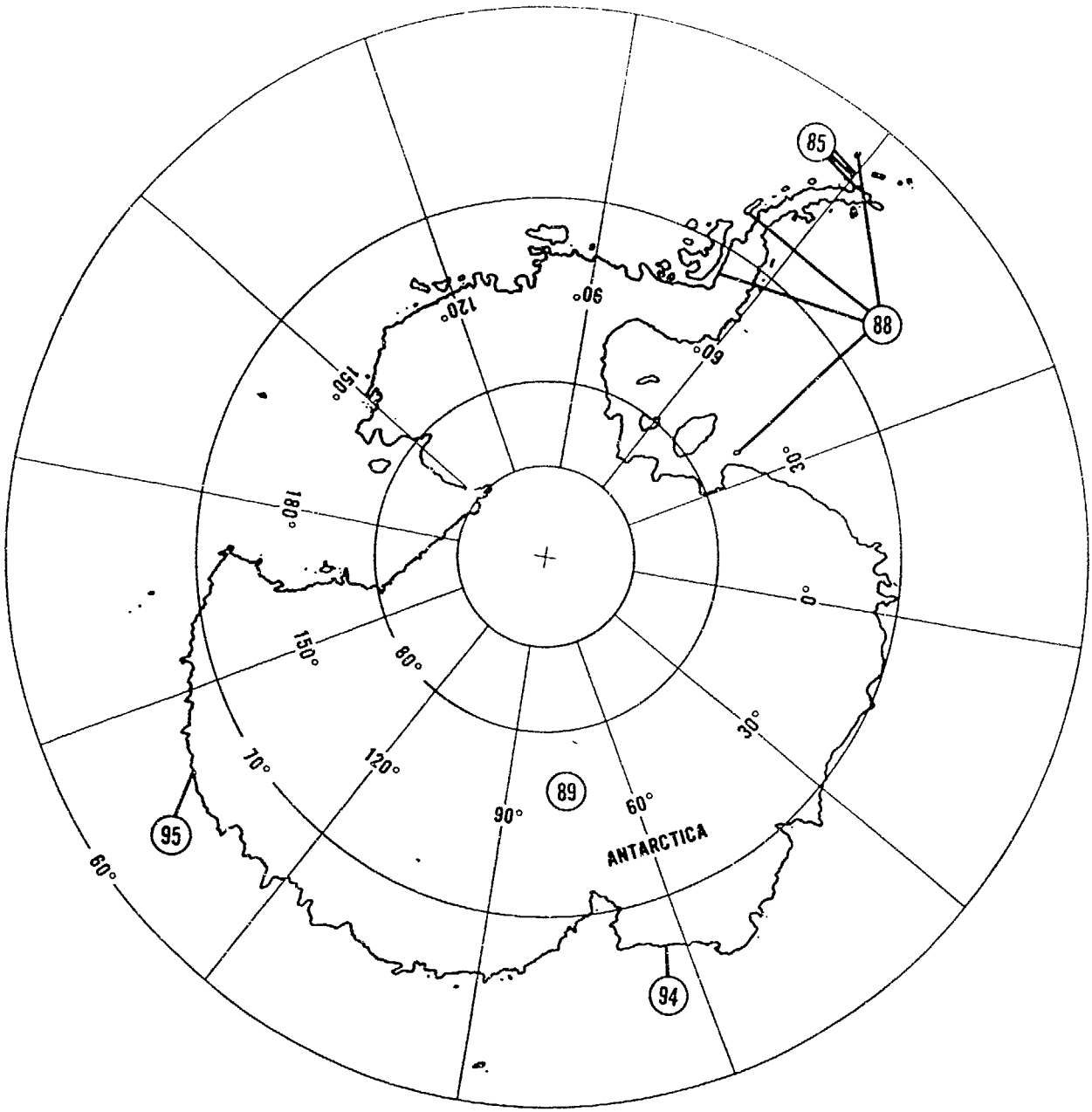
W.M.O. REGION III

BLOCKS (80) THRU (88)


W.M.O. REGION IV
78 ALL CARIBBEAN ISLANDS
71 CANADA
72 (PRIMARIES)
74 (SUPPLEMENTARIES)
UNITED STATES
70 UNITED STATES ALASKA
70
16
16
MEXICO
BERMUDA IS
BAHAMA IS
CUBA
JAMAICA
DOMINICAN REPUBLIC
HAITI
PUERTO RICA
ANTIGUA
GUADELOUPE
DOMINICA
MARTINIQUE
SAINT LUCIA
BARBADOS
ARUBA
CURACAO
GRENADA
TRINIDAD AND TOBAGO
BR HONDURAS
HONDURAS
NICARAGUA
COSTA RICA
CANAL ZONE
PANAMA
GUATEMALA
EL SALVADOR
NEWFOUNDLAND
BAFFIN
ELLESMERE
DEVON
SOMERSET
PRINCE WALES
BANKS
QUEEN CHARLOTTE IS
VANCOUVER IS
CLIPPETON IS
LAWRENCE
ATTU IS
ALEUTIAN ISLANDS
75°
60°
45°
30°
90°
105°
120°
135°
150°
165°
180°


91 ISLANDS IN THE PACIFIC
HAWAIIAN IS
PALMYRA IS
CHRISTMAS IS
MARQUESAS IS
PENRHYN IS
SOCIETY IS
TUAMOTU ARCHIPELAGO
TAHITI
TUBUAI IS
DUCIE IS
PITCAIRN IS
WAKE
MARSHALL IS
GILBERT IS
NAURU OCEAN IS
ELLICE IS
WESTERN SAMOA
FIJI IS
NEW CALEDONIA
NORFOLK IS
KERMADEC IS
LORD HOWE IS
NEW ZEALAND
CHATHAM IS
BOUNTY IS
AMSTERDAM IS
AUCKLAND IS
MACQUARIE IS
TASMANIA
AUSTRALIA
NEW HEBRIDES IS
SOLOMON IS
TERR OF PAPUA AND NEW GUINEA
NEW GUINEA
MARIANA IS
GUAM
CAROLINE IS
TRUK IS
YAP
PALAU IS
PHILIPPINES
HALMAHERA
CELEBES
INDONESIA
PORT TIMOR
BRUNEI
MALAYSIA
BORNEO
JAVA
SUMATRA
CHRISTMAS
COCOS IS
93
94
96
97
98
48
W.M.O. REGION V
BLOCKS 48 AND 91 THRU 98


W.M.O. REGION VI
SVALBARD
FINLAND
SWEDEN
NORWAY
DENMARK
U. K.
IRELAND
FAEROE IS
SHETLAND IS
ORKNEY IS.
CHANNEL IS.
FRANCE
BELG.
NETH.
WEST GERMANY
EAST GER.
POLAND
CZECH
HUNG
AUST
SWITZ.
LIECHT.
SAN MARINO
ITALY
MONACO
CORSICA
SARDINIA
SICILY
MALTA
CRETE
GREECE
ALB.
YUGO.
BULG.
ROMANIA
TURKEY
CYPRUS
LEBANON
SYRIA
ISRAEL
JORDAN
ANDORRA
SPAIN
PORTUGAL
GIBRALTAR
AZORES
ICELAND
GREENLAND
45°
30°
15°
0°
15°
30°
45°
75°
60°
45°
70°
60°



ETAC REGION A

GWIP TARGET IDENTIFICATION CODES

1. TARGET LISTING ALPHABETICALLY BY NAME

TARGET NUMBER	NAME	AWN TARGET ID
29	ADDIS ABABA	ADD
47	ADEN	ADE
81	ALGIERS	ALG
55	ALMA ATA	ALM
56	ARCHANGEL	ABC
31	BACAU	BAC
27	BAGHDAD	BAG
66	BANGKOK	BAN
25	BEIRUT	BEI
98	BET DAGEN	DET
23	BIGARA	MAU
21	BRASILIA	BZL
78	BRASSAVILLE	BRA
94	BUCHAREST	BUC
97	BUDAPEST	BUD
22	BUENOS AIRES	BUE
60	CAIRO	CAT
32	CALCUTTA	CAL
71	CANBERRA	CAN
80	CHANGSHA	CHA
38	CHENGDU I	CH1
36	CHENGDU II	CH2
72	DAKAR	DAK
28	DAMASCUS	DAM
59	DIKSON	DIK
66	DJAKARTA	DJA
40	HANKOW	HKW
84	HANOI	HAN
35	HOFEI	HOF
46	HONG KONG	HNK
67	IRKUTSK	IRK
95	JEDDAH	JED
49	KABUL	KAB
73	KANO	KAN
68	KARACHI	KAR
69	KHABARABSK	KHB
24	KHARTOUM	KHR
53	KIEV	KIE
70	KUALA LUMPUR	KUL
44	LANCHOW	LAN
51	LENNINGRAD	LEN
34	MAGADAN	MAG
20	MARACAY	MAR
26	MINGALADON	MGN
30	MINSK	MIN
86	MOSCOW-HEMI	MSH
57	MOSCOW-SUB	MSS
62	NAIROBI	NAI
75	NEW DEHLI-RGNL	NDR
54	NOVOSIBIRSK	NOV
96	OSLO	OSL
50	PARIS	PAR
77	PEKING	PEK
42	PETROPAVLOVSK	PET
58	POTSDAM	POT
76	PRETORIA	PRE
48	PYONGYANG	PYY
87	ROME	ROM
79	SAINT DENIS	STD
88	SEOUL	SEO
82	SINGAPORE	SIN

TARGET NUMBER	NAME	AWN TARGET ID
61	SOFIA	SOF
52	SVERDLOVSK	SVE
39	TAIPEI	TAI
83	TANANARIVE	TAN
63	TASHKENT	TAS
74	TASHKENT TO KARACHI	T2K
64	TBILISI	TBI
92	TEHRAN	TEH
01	TEST DSI	ZZ1
02	TEST DSI	ZZ2
03	TEST DSI	ZZ3
04	TEST DSI	ZZ4
05	TEST DSI	ZZ5
06	TEST DSI	ZZ6
07	TEST DSI	ZZ7
08	TEST DSI	ZZ8
09	TEST DSI	ZZ9
45	TIENTSIN	TIE
85	TIKSI	TIK
90	TOKYO-HEMI	TOH
91	TOKYO-SUB	TOS
37	ULAN BATOR	ULB
43	VIENTIANE	VIE
93	WARSAW	WAR
89	WELLINGTON	WEL
41	YAKUTSK	YAK

2. TARGET LISTING ALPHABETICALLY BY AWN TARGET ID

TARGET NUMBER	NAME	AWN TARGET ID
29	ADDIS ABABA	ADD
47	ADEN	ADE
81	ALGIERS	ALG
55	ALMA ATA	ALM
56	ARCHANGEL	ARC
31	BACAU	BAC
27	BAGHDAD	BAG
65	BANGKOK	BAN
25	BEIRUT	BEI
78	BRAZZAVILLE	BRA
94	BUCHAREST	BUC
97	BUDAPEST	BUD
22	BUENOS AIRES	BUE
21	BRASILIA	BZL
60	CAIRO	CAI
32	CALCUTTA	CAL
71	CANBERRA	CAN
80	CHANGSHA	CHA
38	CHENGDU I	CH1
36	CHENGDU II	CH2
72	DAKAR	DAK
28	DAMASCUS	DAM
98	BET DAGEN	DET
59	DIKSON	DIK
66	DJAKARTA	DJA
84	HANOI	HAN
40	HANKOW	HKW
46	HONG KONG	HNK
35	HOFEI	HOF
67	IRKUTSK	IRK
95	JEDDAH	JED
49	KABUL	KAB
73	KANO	KAN
68	KARACHI	KAR
69	KHABARAVSK	KHB
24	KHARTOUM	KHR
53	KIEV	KIEV
70	KUALA LUMPUR	KUL
44	LANCHOW	LAN
51	LENINGRAD	LEN
34	MAGADAN	MAG
20	MARACAY	MAR
23	BIGARA	MAU
26	MINGALADON	MGN
30	MINSK	MIN
86	MOSCOW-HEMI	MSH
57	MOSCOW-SUB	MSS
62	NAIROBI	NAI
75	NEW DEHLI-RGNL	NDR
54	NOVOSIBIRSK	NOV
96	OSLO	OSL
50	PARIS	PAR
77	PEKING	PEK
42	PETROPAVLOVSK	PET
58	POTSDAM	POT
76	PRETROIA	PRE
48	PRYONGYANG	PYY
87	ROME	ROM
88	SEOUL	SEO
82	SINGAPORE	SIN
61	SOFIA	SOF
79	SAINT DENIS	SID

TARGET NUMBER	NAME	AWN TARGET ID
52	SVERDLOVSK	SVE
39	TAIPEI	TAI
83	TANANARIVE	TAN
63	TASHKENT	TAS
64	TBILISI	TBI
92	TEHRAN	TEH
45	TIENTSIN	TIE
85	TIKSI	TIK
90	TOKYO-HEMI	TOH
91	TOKYO-SUBRG	TOS
74	TASHKENT TO KARACHI	T2K
37	ULAN BATOR	ULB
43	VIENTIANE	VIE
93	WARSAW	WAR
89	WELLINGTON	WEL
41	YAKUTSK	YAK
01	TEST DSI	ZZ1
02	TEST DSI	ZZ2
03	TEST DSI	ZZ3
04	TEST DSI	ZZ4
05	TEST DSI	ZZ5
06	TEST DSI	ZZ6
07	TEST DSI	ZZ7
08	TEST DSI	ZZ8
09	TEST DSI	ZZ9

3. TARGET LISTING NUMERICALLY BY TARGET NUMBER

TARGET NUMBER	NAME	AWN TARGET ID
01	TEST DSI	ZZ1
02	TEST DSI	ZZ2
03	TEST DSI	ZZ3
04	TEST DSI	ZZ4
05	TEST DSI	ZZ5
06	TEST DSI	ZZ6
07	TEST DSI	ZZ7
08	TEST DSI	ZZ8
09	TEST DSI	ZZ9
20	MARACAY	MAR
21	BRASILIA	BZL
22	BUENOS AIRES	BUE
23	BIGARA	MAU
24	KHARTOUM	KHR
25	BEIRUT	BEI
26	MINGALADON	MGN
27	BAGHDAD	BAG
28	DAMASCUS	DAM
29	ADDIS ABABA	ADD
30	MINSK	MIN
31	BACAU	BAC
32	CALCUTTA	CAL
34	MAGADAN	MAG
35	HOFEI	HOF
36	CHENGDU II	CH2
37	ULAN BATOR	ULB
38	CHENGDU I	CH1
39	TAIPEI	TAI
40	HANKOW	HKW
41	YAKUTSK	YAK
42	PETROPAVLOVSK	PET
43	VIENTIANE	VIE
44	LANCHOW	LAN
45	TIFNTSIN	TIE
46	HONG KONG	HNK
47	ADEN	ADE
48	PYONGYANG	PYY
49	KAUL	KAB
50	PARIS	PAR
51	LENINGRAD	LEN
52	SVERDLOVSK	SVE
53	KIEV	KIE
54	NOVOSIBIRSK	NOV
55	ALMA ATA	ALM
56	ARCHANGEL	ARC
57	MOSCOW SUB	MSS
58	POTSDAM	POT
59	DIKSON	DIK
60	CAIRO	CAI
61	SOFIA	SOF
62	NAIROBI	NAI
63	TASHKENT	TAS
64	TBILISI	TBI
65	BANGKOK	BAN
66	DJAKARTA	DJA
67	IRKUTSK	IRK
68	KARACHI	KAR
69	KHABAROVSK	KHB
70	KUALA LUMPUR	KUL
71	CANBERRA	CAN
72	DAKAR	DAK
73	KANO	KAN
74	TASHKENT TO KARACHI	T2K

TARGET NUMBER	NAME	AWN TARGE ID
75	NEW DELHI-RGNL	NDR
76	PRETORIA	PRE
77	PEKING	PEK
78	BRASSAVILLE	BRA
79	SAINT DENIS	SID
80	CHANGSHA	CHA
81	ALGIERS	ALG
82	SINGAPORE	SIN
83	TANANARIVE	TAN
84	HANOI	HAN
85	TIKSI	TIK
86	MOSCOW HEMI	MSH
87	ROME	ROM
88	SEOUL	SEO
89	WELLINGTON	WEL
90	TOKYO-HEMI	TOH
91	TOKYO-SUB	TOS
92	TEHRAN	TEH
93	WARSAW	WAR
94	BUCHAREST	BUC
95	JEDDAH	JED
96	OSLO	OSL
97	BUDAPEST	BUD
89	BET DAGEN	DET